

Form 5500-SF Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Short Form Annual Return/Report of Small Employee Benefit Plan This form is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA), and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ► Complete all entries in accordance with the instructions to the Form 5500-SF.	OMB Nos. 1210-0110 1210-0089 2018 This Form is Open to Public Inspection
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Part I Annual Report Identification Information		
For calendar plan year 2018 or fiscal plan year beginning <u>01/01/2018</u> and ending <u>12/31/2018</u>		
A This return/report is for:	☒ a single-employer plan	☐ a multiple-employer plan (not multiemployer) (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)
	☐ a one-participant plan	☐ a foreign plan
B This return/report is	☐ the first return/report	☐ the final return/report
	☐ an amended return/report	☐ a short plan year return/report (less than 12 months)
C Check box if filing under:	☒ Form 5558	☐ automatic extension
	☐ special extension (enter description)	☐ DFVC program

Part II Basic Plan Information —enter all requested information		
1a Name of plan <u>SHINCOR SILICONES, INC. RETIREMENT PLAN FOR U.S. EMPLOYEES</u>	1b Three-digit plan number (PN) ►	<u>001</u>
	1c Effective date of plan	<u>08/01/1991</u>
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>SHIN-ETSU SILICONES OF AMERICA, INC.</u> <u>1150 DAMAR DRIVE</u> <u>AKRON, OH 44305</u>	2b Employer Identification Number (EIN) <u>95-4015700</u>	
	2c Sponsor's telephone number <u>330-630-9460</u>	
	2d Business code (see instructions) <u>325200</u>	
3a Plan administrator's name and address ☒ Same as Plan Sponsor.	3b Administrator's EIN	
	3c Administrator's telephone number	
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report. a Sponsor's name c Plan Name	4b EIN 4d PN	
5a Total number of participants at the beginning of the plan year	5a	<u>84</u>
b Total number of participants at the end of the plan year	5b	<u>83</u>
c Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	5c	
d(1) Total number of active participants at the beginning of the plan year	5d(1)	<u>27</u>
d(2) Total number of active participants at the end of the plan year	5d(2)	<u>23</u>
e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	5e	<u>0</u>

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/14/2019	MICHELLE GEISER
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor

- 6a** Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.)..... ☒ Yes ☐ No
- b** Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.)..... ☒ Yes ☐ No
- If you answered "No" to either line 6a or line 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.**
- c** If the plan is a defined benefit plan, is it covered under the PBGC insurance program (see ERISA section 4021)? ☒ Yes ☐ No ☐ Not determined
- If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 4159741. (See instructions.)

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	6024685	5383165
b Total plan liabilities	7b	0	0
c Net plan assets (subtract line 7b from line 7a)	7c	6024685	5383165
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers	8a(1)	160062	
(2) Participants	8a(2)	0	
(3) Others (including rollovers)	8a(3)	0	
b Other income (loss)	8b	-375579	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		-215517
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	396737	
e Certain deemed and/or corrective distributions (see instructions)	8e	0	
f Administrative service providers (salaries, fees, commissions)	8f	29266	
g Other expenses	8g	0	
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		426003
i Net income (loss) (subtract line 8h from line 8c)	8i		-641520
j Transfers to (from) the plan (see instructions)	8j	0	

Part IV Plan Characteristics

- 9a** If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions:
1A 1I 3H
- b** If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

Part V Compliance Questions

10 During the plan year:		Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? (See instructions and DOL's Voluntary Fiduciary Correction Program)	10a		☒	
b Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.)	10b		☒	
c Was the plan covered by a fidelity bond?	10c	☒		500000
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	10d		☒	
e Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service, or other organization that provides some or all of the benefits under the plan? (See instructions.)	10e		☒	
f Has the plan failed to provide any benefit when due under the plan?	10f		☒	
g Did the plan have any participant loans? (If "Yes," enter amount as of year-end.)	10g		☒	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	10h			
i If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3	10i			

Part VI Pension Funding Compliance

11 Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and line 11a below) ☒ Yes ☐ No

11a Enter the unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40..... **11a** 0

12 Is this a defined contribution plan subject to the minimum funding requirements of section 412 of the Code or section 302 of ERISA? ☐ Yes ☒ No
(If "Yes," complete line 12a or lines 12b, 12c, 12d, and 12e below, as applicable.)

a If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions, and enter the date of the letter ruling granting the waiver. Month Day Year

If you completed line 12a, complete lines 3, 9, and 10 of Schedule MB (Form 5500), and skip to line 13.

b Enter the minimum required contribution for this plan year **12b**

c Enter the amount contributed by the employer to the plan for this plan year **12c**

d Subtract the amount in line 12c from the amount in line 12b. Enter the result (enter a minus sign to the left of a negative amount) **12d**

e Will the minimum funding amount reported on line 12d be met by the funding deadline? ☐ Yes ☐ No ☐ N/A

Part VII Plan Terminations and Transfers of Assets

13a Has a resolution to terminate the plan been adopted in any plan year? ☐ Yes ☒ No

If "Yes," enter the amount of any plan assets that reverted to the employer this year **13a**

b Were all the plan assets distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC? ☐ Yes ☒ No

c If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

13c(1) Name of plan(s):	13c(2) EIN(s)	13c(3) PN(s)

<div>SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Single-Employer Defined Benefit Plan Actuarial Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).</div> <div>File as an attachment to Form 5500 or 5500-SF.</div>	<div>OMB No. 1210-0110</div> <div>2018</div> <div>This Form is Open to Public Inspection</div>
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For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018	
Round off amounts to nearest dollar.	
Caution: A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.	
A Name of plan SHINCOR SILICONES, INC. RETIREMENT PLAN FOR U.S. EMPLOYEES	B Three-digit plan number (PN) 001
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF SHIN-ETSU SILICONES OF AMERICA, INC.	D Employer Identification Number (EIN) 95-4015700
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☒ 100 or fewer ☐ 101-500 ☐ More than 500

Part I	Basic Information
1	Enter the valuation date: Month 01 Day 01 Year 2018
2	Assets:
a	Market value 6023703
b	Actuarial value 6023703
3	Funding target/participant count breakdown
a	For retired participants and beneficiaries receiving payment 31 3850146 3850146
b	For terminated vested participants 26 829109 829109
c	For active participants 27 1785665 1793808
d	Total 84 6464920 6473063
4	If the plan is in at-risk status, check the box and complete lines (a) and (b)
a	Funding target disregarding prescribed at-risk assumptions 4a
b	Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor 4b
5	Effective interest rate 5 5.68%
6	Target normal cost 6 27733

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	
Signature of actuary	10/14/2019
SETH H. PITASKY, EA, MAAA, MSPA	Date
Type or print name of actuary	17-07321
CBIZ RETIREMENT PLAN SERVICES	Most recent enrollment number
Firm name	216-520-6174
6050 OAK TREE BLVD. SOUTH SUITE 500 INDEPENDENCE, OH 44131	Telephone number (including area code)
Address of the firm	

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	77001
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)	0	77001
10 Interest on line 9 using prior year's actual return of <u>12.49</u> %	0	9617
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		34
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.90</u> %		2
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance		36
d Portion of (c) to be added to prefunding balance		36
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	86654

Part III Funding Percentages

14 Funding target attainment percentage	14	91.71%
15 Adjusted funding target attainment percentage	15	91.71%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	89.62%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
04/13/2018	46795	0			
07/06/2018	46795	0			
10/04/2018	33236	0			
01/15/2019	33236	0			
Totals ▶			18(b)	160062	18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	154833

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year? ☒ Yes ☐ No
- b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☒ Yes ☐ No
- c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th
0	0	0	0

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 3.92%	2nd segment: 5.52%	3rd segment: 6.29%	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 4
22 Weighted average retirement age				22 65
23 Mortality table(s) (see instructions)	Prior regulation:	☒ Prescribed - combined	☐ Prescribed - separate	☐ Substitute
	Current regulation:	☐ Prescribed - combined	☐ Prescribed - separate	☐ Substitute

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a	27733	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance		Installment
a Net shortfall amortization installment	536013		119980
b Waiver amortization installment	0		0
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)	34	147713	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0
36 Additional cash requirement (line 34 minus line 35)	36	147713	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	154833	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	7120	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:	
a Schedule elected	☐ 2 plus 7 years ☐ 15 years
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011

SCHEDULE SB ATTACHMENT

Line 26 - Schedule of Active Participant Data

Plan Name: Shincor Silicones, Inc. Retirement Plan for U.S. Employees

EIN/PN: 95-4015700/001

Valuation Date: January 1, 2018

Compensation is shown below only for cells where the counts are greater than 20.

Att. Age:	Years of Credited Service														Total
	Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & Up		
Under 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25 to 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30 to 34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35 to 39	-	-	-	1	1	3	-	-	-	-	-	-	-	5	
40 to 44	-	-	-	1	-	1	-	-	-	-	-	-	-	2	
45 to 49	-	-	-	1	-	2	-	2	-	-	-	-	-	5	
50 to 54	-	-	-	-	-	-	-	2	2	-	-	-	-	4	
55 to 59	-	-	-	-	-	2	-	2	1	-	-	-	-	5	
60 to 64	-	-	-	-	-	-	-	1	3	-	-	-	-	4	
65 to 69	-	-	-	-	-	-	2	-	-	-	-	-	-	2	
70 & Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	-	-	-	3	1	8	2	7	6	-	-	-	-	27	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

ACTUARIAL ASSUMPTIONS

Funding Discount Rates

IRS-Prescribed Three-Segment Rates, for the fourth month prior to the valuation date (Sep).

	Non-Stabilized	Limited to 25-Year Corridor
Segment I:	1.75%	3.92%
Segment II:	3.76%	5.52%
Segment III:	4.66%	6.29%

The "Limited to 25 Year Corridor" rates are adjusted by the applicable maximum and applicable minimum percentages of the 25-year average segment rates, as set forth in the Highway and Transportation Funding Act of 2014 ('HATFA-14') for use in Minimum Required Contribution calculations. The IRS Maximum Deductible Limit Calculations use the rates from the "Non-Stabilized" column above.

Effective Interest Rate

The Effective Interest Rate (EIR) for the 2018 Plan Year was 5.68%. For the prior Plan year, the EIR was 5.90%.

The EIR is the single rate of interest which, if used to determine the Funding Target, would equal the Funding Target determined using the plan sponsor's above elected discount rates. The EIR is used to discount contributions for minimum funding requirements and to accumulate excess contributions to the end of the year.

PBGC Variable Premium Discount Rates

The segment rates used to calculate the PBGC Variable Rate Premiums with the Standard Premium Funding Target and/or Alternative Premium Funding Target are as follows:

	Standard	Alternative
Segment I:	3.10%	1.75%
Segment II:	4.15%	3.76%
Segment III:	4.46%	4.66%

The Standard Premium Funding Target rates are based on rates for the month prior to the valuation, and the Alternative Premium Funding Target rates are based on non-stabilized funding discount rates for the current valuation.

Healthy Participant Mortality Table Elected

The IRS 2018 P.V. M Optional Combined (1.430(h)(3)-1) Table for males, and the IRS 2018 P.V. F Optional Combined (1.430(h)(3)-1) Table for females.

ACTUARIAL ASSUMPTIONS (cont)

Expected Return on Assets

Not applicable for funding calculation purposes. A smoothing method is not used to calculate the Actuarial Value of Assets; therefore, the Expected Return on Assets is not used.

Expenses

Administrative expenses were assumed to equal actual expenses in the prior year. Under this assumption, expenses of \$27,733 were included in the Normal Cost.

Salary Scale

N/A - Plan accruals are frozen.

Inflation

None.

This assumption affects long-term assumed increases in the Social Security Taxable Wage base and the IRS Compensation Limits.

Withdrawal Rates

T-7 LESS GA51M. Below is a table of representative rates.

Age	Rates
20	9.94%
25	9.67%
30	9.30%
35	8.71%
40	7.75%
45	6.35%
50	4.22%
55	1.55%
60	0.15%

Benefit Commencement Age

Future deferred vested participants are assumed to commence at the Plan's Normal Retirement Age, or valuation age, if later.

Disability Incidence

None.

Disability Mortality

Same as healthy participant mortality.

Retirement Rates

None.

Spousal Assumptions

None.

Form of Payment

Participants are assumed to take an annuity in the Normal Form of Payment.

ACTUARIAL ASSUMPTIONS (cont)

Changes in non-required assumptions since the prior valuation None.

ACTUARIAL METHODS

Minimum Funding Cost Method

The actuarial cost method used to determine the liabilities for minimum funding calculations is the Traditional Unit Credit method. The objective under this method is to fund each participant's benefits under the plan as they accrue. Under this cost method, the actuarial accrued liability is the sum of the individual accrued liabilities for all participants and the normal cost is the sum of the individual normal costs for each participant. The individual accrued liability for a participant is the present value of the accrued benefit as of the valuation date taking into account service and/or pay as of the valuation date. The individual normal cost for a participant is the present value of the benefit expected to accrue in the plan year being valued.

If a plan is frozen, there is no normal cost attributable to benefit accruals.

Maximum deductible contribution method

The actuarial cost method used to determine the liabilities for maximum deductible calculations is the Projected Unit Credit method. The objective under this method is to fund each participant's benefits under the plan as they accrue, taking into consideration expected future compensation increases. Under this cost method, the actuarial accrued liability is the sum of the individual accrued liabilities for all participants and the normal cost is the sum of the individual normal costs for all participant. The individual accrued liability for a participant is the sum of 1) the present value of the accrued benefit earned as of the valuation date taking into account service and/or pay as of the valuation date; plus 2) the present value of the accrued benefit expected to be earned because of any expected future compensation increases.

The individual normal cost for a participant is the sum of the present value of the benefit expected to accrue in the plan year being valued taking into account any expected future compensation increases.

Asset Method

We used financial data submitted by the trustee as of the valuation date without further audit. This information was not be verified by a plan's actuary. We have reviewed the information for internal consistency, and we have no reason to doubt is substantial accuracy.

Changes in methods since the prior valuation

None.

**SCHEDULE SB
(Form 5500)**Department of the Treasury
Internal Revenue ServiceDepartment of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

**Single-Employer Defined Benefit Plan
Actuarial Information**

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500 or 5500-SF.**

OMB No. 1210-0110

2018**This Form is Open to Public
Inspection**For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018▶ **Round off amounts to nearest dollar.**▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan SHINCOR SILICONES, INC. RETIREMENT PLAN FOR U.S. EMPLOYEES		B Three-digit plan number (PN) ▶ <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Shin-Etsu Silicones of America, Inc.		D Employer Identification Number (EIN) 95-4015700
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B		F Prior year plan size: ☒ 100 or fewer ☐ 101-500 ☐ More than 500

Part I Basic Information

1 Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2018</u>			
2 Assets:			
a Market value.....		2a	6,023,703
b Actuarial value		2b	6,023,703
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	31	3,850,146	3,850,146
b For terminated vested participants	26	829,109	829,109
c For active participants	27	1,785,665	1,793,808
d Total	84	6,464,920	6,473,063
4 If the plan is in at-risk status, check the box and complete lines (a) and (b) ☐			
a Funding target disregarding prescribed at-risk assumptions.....		4a	
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor		4b	
5 Effective interest rate.....	5	5.68%	
6 Target normal cost	6	27,733	

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	SETH H. PITASKY, EA, MAAA, MSPA 	10/14/2019
Signature of actuary		Date
SETH H. PITASKY, EA, MAAA, MSPA		1707321
Type or print name of actuary		Most recent enrollment number
CBIZ RETIREMENT PLAN SERVICES		216-520-6174
Firm name		Telephone number (including area code)
5050 OAK TREE BLVD. SOUTH		
SUITE 500		
INDEPENDENCE OH 44131		
Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐**For Paperwork Reduction Act Notice, see the Instructions for Form 5500 or 5500-SF.****Schedule SB (Form 5500) 2018
v. 171027**

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....	0	77,001
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8).....	0	77,001
10 Interest on line 9 using prior year's actual return of <u>12.49%</u>	0	9,617
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year).....		34
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.90%</u>		2
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance		36
d Portion of (c) to be added to prefunding balance.....		36
12 Other reductions in balances due to elections or deemed elections.....	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	0	86,654

Part III Funding Percentages

14 Funding target attainment percentage	14	91.71%
15 Adjusted funding target attainment percentage.....	15	91.71%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	89.62%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
04/13/2018	46,795	0			
07/06/2018	46,795	0			
10/04/2018	33,236	0			
01/15/2019	33,236	0			
Totals ▶			18(b)	160,062	18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.....	19c	154,833

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year?..... ☒ Yes ☐ No
- b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☒ Yes ☐ No
- c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year

(1) 1st	(2) 2nd	(3) 3rd	(4) 4th
0	0	0	0

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 3.92 %	2nd segment: 5.52 %	3rd segment: 6.29 %	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b 4
22 Weighted average retirement age				22 65
23 Mortality table(s) (see instructions)	Prior regulation:	☒ Prescribed - combined	☐ Prescribed - separate	☐ Substitute
	Current regulation:	☐ Prescribed - combined	☐ Prescribed - separate	☐ Substitute

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.....	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.....	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6).....	31a	27,733	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment.....	536,013	119,980	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....	34	147,713	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	0	0
36 Additional cash requirement (line 34 minus line 35).....	36	147,713	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....	37	154,833	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	7,120	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37).....	39	0	
40 Unpaid minimum required contributions for all years	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:	
a Schedule elected	☐ 2 plus 7 years ☐ 15 years
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011

SCHEDULE SB ATTACHMENT

Line 19 - Discounted Employer Contributions

Plan Name: Shincor Silicones, Inc. Retirement Plan for U.S. Employees

EIN/PN: 95-4015700/001

Valuation Date: January 1, 2018

Total Contributed: \$160,062.00

Total Discounted to Valuation Date: \$154,833.00

Date	Amount	Plan Year Beginning	Effective Rate of Interest	Amount Discounted	Penalty Rate of Interest	Additional Amount Discounted	Present Value on Date of Valuation
04/13/2018	46,795	01/2018	5.68%	717			46,078
07/06/2018	46,795	01/2018	5.68%	1,299			45,496
10/04/2018	33,236	01/2018	5.68%	1,360			31,876
01/15/2019	33,236	01/2018	5.68%	1,853			31,383

SCHEDULE SB ATTACHMENT

Line 22 - Weighted Average Retirement Age

Plan Name: Shincor Silicones, Inc. Retirement Plan for U.S. Employees

EIN/PN: 95-4015700/001

Valuation Date: January 1, 2018

Each participant is assumed to retire at his/her normal retirement age of 65.

SUMMARY of PLAN BENEFITS

Plan Effective Date	August 1, 1991. The plan was last restated effective January 1, 2012 and most recently amended effective July 1, 2013.																
Eligibility Requirements	None.																
Vesting	100% vesting upon earning 5 Years of Vesting Service.																
Accrued Benefit Formula	1.2% of Average Monthly Compensation per Year of Service. Accrued Benefits were frozen as of December 31, 2010.																
Average Compensation	Average Compensation is the highest consecutive three year average of pensionable earnings, out of the last ten calendar years.																
Credited Service	Elapsed time method.																
Vesting Service	Elapsed time method.																
Normal Retirement Age	Upon attainment of 65.																
Early Retirement	<p><u>Eligibility:</u> Upon attainment of age 55 and completion of 5 Years of Service.</p> <p><u>Benefit:</u> The accrued benefit multiplied by the appropriate factor below:</p> <table><tr><th>Age</th><th>Factor</th></tr><tr><td>55</td><td>0.720</td></tr><tr><td>56</td><td>0.785</td></tr><tr><td>57</td><td>0.850</td></tr><tr><td>58</td><td>0.880</td></tr><tr><td>59</td><td>0.910</td></tr><tr><td>60</td><td>0.940</td></tr><tr><td>61</td><td>0.970</td></tr></table>	Age	Factor	55	0.720	56	0.785	57	0.850	58	0.880	59	0.910	60	0.940	61	0.970
Age	Factor																
55	0.720																
56	0.785																
57	0.850																
58	0.880																
59	0.910																
60	0.940																
61	0.970																
Disability Retirement	None.																

SUMMARY of PLAN BENEFITS (cont)

Pre-Retirement Death

Eligibility: Upon earning 5 Years of Service.

Benefit: The spouse is eligible for 50% of the benefit that would have been payable, if the Participant had live to Early Retirement Eligibility and elected a 50% Qualified Joint and Survivor Annuity. The benefit is payable upon the Participant's Early Retirement Eligibility date.

Normal Form of Payment

Unless otherwise elected, the benefit payable a participant who has been married at least one year is an actuarially equivalent 50% Joint and Survivor benefit. For unmarried participants, the Normal Form is a single life annuity.

Optional Forms

Benefits may be elected from:

- 50%, 75% and 100% Joint and Survivor
- 5 Year Certain and Continuous
- Lump Sum
- Single Life Annuity

Changes in Plan Benefits recognized since the last valuation

None.

SCHEDULE SB ATTACHMENT

Line 32 - Amortization Bases Used in the Valuation

Plan Name: Shincor Silicones, Inc. Retirement Plan for U.S. Employees

EIN/PN: 95-4015700/001

Valuation Date: January 1, 2018

<u>Original Valuation</u>	<u>Remaining Years</u>	<u>Amortization Type</u>	<u>Outstanding Balance</u>	<u>Current Year Amortization</u>
1/1/2018	7	7 year	41,098	6,709
1/1/2017	6	7 year	(83,621)	(15,482)
1/1/2016	5	7 year	541,220	116,724
1/1/2015	4	7 year	127,627	33,770
1/1/2014	3	7 year	(208,186)	(72,080)
1/1/2013	2	7 year	137,774	70,211
1/1/2012	1	7 year	(19,867)	(19,867)