## Silopren® LSR 3485/35

## Silicone Rubber, LSR

## Momentive Performance Materials Inc.

## Message:

Silopren LSR 3485/38 is a two-component liquid silicone rubber for injection molding processes. This material is an excellent candidate to consider for the manufacture of elastomeric articles requiring self-lubricating properties. The self-lubricating effect is achieved by a fluid which exudes out of the vulcanizate over an extended period of time. It typically starts between a few hours and one day after vulcanization. Key Features and Benefits Vulcanizates consisting of Silopren LSR 3485/35 liquid silicone rubber are typically distinguished by the following properties: self-lubricating properties low viscosity fast cure high thermal stability outstanding resistance to aging easy to color **Potential Applications** Because of the outstanding properties, Silopren LSR 3485/35 liquid silicone rubber is an excellent candidate to consider for use in wire harness applications for the following elastomeric articles: cable seals mat seals grommets gaskets plug seals

Features     Fast Cure       Fast Molding Cycle     Good Colorability       Good Colorability     Good Mold Release       Good Thermal Stability     Low Viscosity       Low Viscosity     Self       Uses     Gaskets       Grommets     Seals       Forms     Liquid       Processing Method     Injection Molding       Physical     Nominal Value     Unit       Density     1.11     g/cm <sup>3</sup> I and nesss     Nominal Value     Unit       Durometer Hardness (Shore A)     33     Unit       Elastomers     Nominal Value     Unit       Tensile Strength     1.0.0     MPa       Tensile Elongation (Break)     730     %	General Information					
Good Colorability Good Mold Release Good Thermal Stability Low Viscosity Self LubricatingSelf Self Self Self Self Self Self Self	Features	Fast Cure				
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	Elastomers	Nominal Value	Unit	Test Method		
Tensile Elongation (Break) 730 % DIN 53504	Tensile Strength	10.0	MPa	DIN 53504		
	Tensile Elongation (Break)	730	%	DIN 53504		

ThermosetNominal ValueUnitTest MethodThermoset ComponentsPart AMix Ratio by Weight 1.0Part BMix Ratio by Weight 1.0Shelf Life (< 27°C)	Tear Strength <sup>1</sup>	26.0	kN/m	ASTM D624
Intermoset Components         Part A       Mix Ratio by Weight 1.0         Part B       Mix Ratio by Weight 1.0         Shelf Life < 27*C)	Compression Set (175°C, 22 hr)	25	%	ISO 815
Part A       Mix Ratio by Weight 1.0         Part B       Mix Ratio by Weight 1.0         Shelf Life < 27°C)	Thermoset	Nominal Value	Unit	Test Method
Part B       Mix Ratio by Weight 1.0         Shelf Life (< 27°C)	Thermoset Components			
Shelf Life (< 2r/C)7wkPotor Time (200°C)4.0hrAdditional InformationNominal ValueUnitTest MethodVulcanization (175°C)10.0min24.0%30.0%Incurred PropertiesNominal Value0Test MethodNominal ValueUnitTest MethodcolorNominal ValueUnitTest MethodcolorNominal ValueUnitTest MethodcolorWhite5WhiteDIN 530182 orc fo60Parisorc for10MinNTEInternet1 or foDie B2 or foParis1 or foParis1 or foParis2 or foParis1 or foParis2 or foParis1 or foParis2 or foParis2 or foParis1 or foParis2 or foParis2 or foParis2 or foParis3 or foParis2 or foParis3	Part A	Mix Ratio by Weight: 1.0		
Post Cure Time (200°C)4.0IrTest MethodAdditional InformationNominal ValueMiniaTest MethodVulcanization (175°C)10.0minTest MethodFluid Content4.0%Statemark <sup>2</sup> A.0%Test MethodIncured Properties4.0%Test MethodColorNominal ValueUnitTest MethodcolorNominal ValueUnitTest Method <sup>4</sup> MiteStatemarkJins Statemark20°C <sup>6</sup> StatemarkParsStatemark20°C <sup>6</sup> StatemarkStatemarkStatemark20°C <sup>7</sup> GtaMiteStatemarkPot Life (20°C)A30.0ParsStatemark1Die BStatemarkStatemark2.1Die BStatemarkStatemark3.1Part BStatemarkStatemark4.1Part BStatemarkStatemark5.2Part AStatemarkStatemark6.3Part AStatemarkStatemark3.1Part AStatemarkStatemark5.2Part AStatemarkStatemark6.1Part AStatemarkStatemark6.1Part AStatemarkStatemark6.1Part AStatemarkStatemark6.1Part AStatemarkStatemark6.1Part AStatemarkStatemark6.1Part AStatemarkStatemark6.1	Part B	Mix Ratio by Weight: 1.0		
Additional InformationNominal ValueUnitTest MethodVulcanization (175°C)10.0minFluid Content24.0%34.0%	Shelf Life (< 27°C)	77	wk	
Vulcanization (175°C)       10.0       min         Fluid Content $-^2$ 4.0       %        3       4.0       %        3       Nominal Value       Vint       Test Method         Color       Nominal Value       Unit       Test Method         c-4       White	Post Cure Time (200°C)	4.0	hr	
Fluid Content $-^2$ 4.0% $-^3$ 4.0%Uncured PropertiesNominal ValueUnitTest MethodColor	Additional Information	Nominal Value	Unit	Test Method
24.0%34.0%Uncured PropertiesNominal ValueUnitTest MethodColor	Vulcanization (175°C)	10.0	min	
	Fluid Content			
Uncured Properties       Nominal Value       Unit       Test Method         Color      4       White	<sup>2</sup>	4.0	%	
Color    4     White      5     White       Viscosity     DIN 53018       20°C <sup>6</sup> 630     Pa · s       20°C <sup>7</sup> 660     Pa · s       Pot Life (20°C)     4300     min       NOTE       1.     Die B       2.     Part B       3.     Part A       4.     Part B       5.     Part A       6.     Part A	<sup>3</sup>	4.0	%	
4White 5WhiteViscosityDIN 5301820°C 6630Pa·s20°C 7660Pa·sPot Life (20°C)4300minNOTE1.Die B2.Part BImmediate3.Part AImmediate4.Part BImmediate5.Part A6.Part A	Uncured Properties	Nominal Value	Unit	Test Method
<sup>5</sup> White         Viscosity       DIN 53018         20°C <sup>6</sup> 630       Pa·s         20°C <sup>7</sup> 660       Pa·s         Pot Life (20°C)       4300       min         NOTE       1       Die B         2.       Part B	Color			
Viscosity       DIN 53018         20°C <sup>6</sup> 630       Pa ·s         20°C <sup>7</sup> 660       Pa ·s         Pot Life (20°C)       4300       min         NOTE       1.       Die B         2.       Part B       .         3.       Part A       .         4.       Part B       .         5.       Part A       .         6.       Part A       .	4	White		
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Pot Life (20°C)4300minNOTEDie BControl Control C	20°C <sup>6</sup>	630	Pa·s	
NOTE1.Die B2.Part B3.Part A4.Part B5.Part A6.Part A	20°C <sup>7</sup>	660	Pa·s	
1.     Die B       2.     Part B       3.     Part A       4.     Part B       5.     Part A       6.     Part A	Pot Life (20°C)	4300	min	
2.Part B3.Part A4.Part B5.Part A6.Part A	NOTE			
3.Part A4.Part B5.Part A6.Part A	1.	Die B		
4.Part B5.Part A6.Part A	2.	Part B		
5.Part A6.Part A	3.	Part A		
6. Part A	4.	Part B		
	5.	Part A		
7. Part B	6.	Part A		
	7.	Part B		

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