

Preliminary Technical Data Sheet

Low Viscosity LSR Silopren* Electro 242-0

Product Description

Silopren Electro 242-0 is a two-component liquid silicone rubber with a very high flowability especially developed for the economical production of large articles, like hollow core insulators or cable accessories. Due to its low viscosity **Silopren Electro 242-0** can be used in various casting processes if an appropriate metering and mixing equipment is available. Because of the outstanding properties **Silopren Electro 242-0** is particularly suitable for the following elastomeric articles: hollow core insulators, high voltage plugs, cable connectors, fittings and terminals, suspension and long rod insulators, post line and pin insulators and surge arresters.

Key Performance Properties

Vulcanizates consisting of **Silopren Electro 242-0** are distinguished by the following properties

- outstanding ageing behavior and weather resistance
- fast hydrophobicity transfer and hydrophobicity recovery
- rapid vulcanization
- excellent dielectric behavior over a wide range of temperatures
- very good tracking and arc resistance
- excellent flowability
- high stability and flexibility at low temperatures
- excellent stability to ozone and ultraviolet light
- not readily combustible, does not melt or drip
- easy pigmentable with LSR Color Pastes

Specifications

Typical Product Data cannot be used for specifications. Assistance and specifications are available by contacting GE Bayer Silicones GmbH & Co. KG or the next Sales Office.

Typical Product Data

Typical Properties of the rubber:				
			A – component	B - component
Appearance			translucent	translucent
Viscosity, $\dot{\gamma} = 10 \text{ s}^{-1}$ at 20°C	DIN 53 018	Pa · s	30	30
The pot-life of the mixture of the two components (closed vessel) at 20°C is three days. Increased temperatures reduce the pot-life.				

Typical properties of the vulcanizate:			
Mixing ratio of components A : B = 1 : 1. Vulcanisation: 10 min. 175°C			
Density	DIN 53 479 A	g/cm ³	1.07
Hardness	DIN 530505	Shore A	30
Tensile strength	DIN 53 504 S2	N/mm ²	4.0
Elongation at break	DIN 53 504 S2	%	300
Tear strength	ASTM D 624 die B	N/mm	20
Volume resistivity	DIN 53482	Ohm · cm	5 · 10 ¹⁵
Dielectric strength	DIN 53481	kV/mm	25
Dielectric constant	DIN 53483 (50 Hz)		2.7
Dissipation factor	DIN 53483 (50 Hz)		0.001
Arc resistance	DIN VDE 0441, part 1	sec	> 300
Tracking resistance	IEC Publ. 587	Class	1A 4.5

These typical data are only intended as a guide and should not be used in preparing specifications.

Containers

Silopren Electro 242-0 is available in 20 kg pails and 200 kg drums.

Instructions for Use

Due to the low viscosity resulting in a high volumetric flow rate, ready-to-use mixtures (of the components A and B) can be fed directly to the heated mould from the original containers by means of a metering and mixing unit. At mould temperatures of 90 - 150°C, the addition-crosslinking silicone rubber cures free of dissociation products within minutes.

Handling and Safety

Material Safety Data Sheets are available upon request from GE Bayer Silicones. Similar information for other chemicals used with GE Bayer Silicones products may be obtained from the respective suppliers.

Storage Period

Correctly stored in its original unopened container at room temperature (max. 27°C) **Silopren Electro 242-0** has a shelf life of 12 months** from the date of manufacturing. Containers, which have been opened, must be kept tightly closed afterwards.

**Please see also use-before/expiry date on product label and certificate.

Availability

Silopren Electro 242-0 may be ordered from your regular sales contact or please call GE Bayer Silicones, Bergen-op-Zoom, Netherlands at +00800-4321-1000 to find out which is the nearest sales office to you.

PRINCIPAL LOCATIONS – Regional Information

North America	World Headquarters 187 Danbury Road Wilton, CT 06897, USA	T 800.295.2392	F 607.754.7517
Latin America	Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700, Brazil	T +55.11.4534.9650	F +55.11.4534.9660
Europe, Middle East, Africa and India	D-51368 Leverkusen Germany	T 00.800.4321.1000 T +31.164.293.276	F +31.164.241.750
Pacific	Akasaka Park Building - 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan	T +81.3.5544.3100	F +81.3.5544.3101

CUSTOMER SERVICE CENTERS

North America	Charleston, WV 25314, USA E cs-na.silicones@momentive.com		
	• Specialty Fluids	T 800.523.5862	F 304.746.1654
	• UA, Silanes, Resins, and Specialties	T 800.334.4674	F 304.746.1623
	• RTV Products-Elastomers	T 800.332.3390	F 304.746.1623
	• Sealants and Adhesives & Construction	T 877.943.7325	F 304.746.1654
Latin America	E cs-la.silicones@momentive.com		
	• Argentina & Chile	T +54.11.4862.9544	F +54.11.4862.9544
	• Brazil	T +55.11.4534.9650	F +55.11.4534.9660
	• Mexico & Central America	T +52.55.5899.5135	F +52.55.5899.5138
	• Venezuela, Ecuador, Peru, Colombia, & Caribbean	T +58.212.285.2149	F +58.212.285.2149
Europe, Middle East, Africa and India	E cs-eur.silicones@momentive.com	T 00.800.4321.1000 T +31.164.293.276	F +31.164.241750
Pacific	E cs-ap.silicones@momentive.com		
	• Japan E cs-jp.silicones@momentive.com	T +81.276.20.6182	
	• China	T +86.21.5050.4666 (ext. 1523)	
	• Korea	T +82.2.6201.4600	
	• Singapore	T +65.6220.7022	
Worldwide Hotline	Worldwide Web www.momentive.com	T 800.295.2392 T +607.786.8131	F +607.786.8309

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS HOLDINGS INC., MOMENTIVE PERFORMANCE MATERIALS USA INC., MOMENTIVE PERFORMANCE MATERIALS WORLDWIDE INC., MOMENTIVE PERFORMANCE MATERIALS GmbH & Co. KG, MOMENTIVE PERFORMANCE MATERIALS SUISSE Sarl, THEIR SUBSIDIARIES AND AFFILIATES DOING BUSINESS IN LOCAL JURISDICTIONS (collectively "SUPPLIERS"), ARE SOLD BY THE RESPECTIVE LEGAL ENTITY OF THE SUPPLIER SUBJECT TO SUPPLIERS' STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIERS MAKE NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SUPPLIERS' PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. AFOREMENTIONED EXCLUSIONS OR LIMITATION OF LIABILITY ARE NOT APPLICABLE TO THE EXTENT THAT THE END-USE CONDITIONS AND/OR INCORPORATION CONDITIONS CORRESPOND TO THE RECOMMENDED CONDITIONS OF USE AND/OR OF INCORPORATION AS DESCRIBED BY SUPPLIER IN ITS PRODUCT DATA SHEET AND/OR PRODUCT SPECIFICATIONS.

EXCEPT AS PROVIDED IN SUPPLIERS' STANDARD CONDITIONS OF SALE, SUPPLIERS AND THEIR REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Suppliers' materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Suppliers' products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Suppliers' Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Suppliers. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Suppliers or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.