

### Silopren\* Electro 242 –15 HVI grey

**Product Description** **Silopren Electro 242-15 HVI grey** is a two-component liquid silicone rubber for injection moulding processes. This silicone rubber is particularly developed for the manufacturing of housing and weather sheds for all kinds of insulators.

**Key Performance Properties** Vulcanizates consisting of **Silopren Electro 242-15 HVI grey** are distinguished by the following properties:

- outstanding ageing behaviour and weather resistance fast hydrophobicity
- transfer and hydrophobicity recovery
- rapid vulcanisation
- excellent dielectric behaviour over a wide range of temperatures
- very good tracking and arc resistance
- very good flowability
- high stability and flexibility at low temperatures
- excellent stability to ozone and ultraviolet light
- no not readily combustible, does not melt or drip

- Approval**
- 1000 h salt fog test according IEC 61109
  - 5000 h ageing test according IEC 1109 Annex C
  - salt fog test and UV ageing according HN-26 E 20 (Electricite de France).

**Applications** Because of the outstanding properties **Silopren Electro 242-15 HVI grey** is particularly suitable for the following elastomeric articles: suspension and long rod insulators, post line and pin insulators, surge arresters, hollow core insulators, high voltage plugs, cable connectors, fittings and terminals.

#### Typical Product Data

Typical properties of the rubber:			
		A-component	B-component
Colour		NCS S 2502 – grey	colourless
Viscosity, Pa.s $\gamma = 10 \text{ s}^{-1}$ at 20 ° C	DIN 53018	95	85
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 vulcanisate:			
Mixing ratio of components A : B = 1 : 1. Vulcanisation: 10 min/175 ° C			
Density	DIN 53 479 A	g/cm <sup>3</sup>	1.08
Hardness	DIN 53 505	Shore A	37
Tensile strength	DIN 53 504 S2	N/mm <sup>2</sup>	6.5
Elongation at break	DIN 53 504 S2	%	530
Tear strength	ASTM D 624 die B	N/mm	24

Volume resistivity	DIN 53482	ohm.cm	$5 \cdot 10^{15}$
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

**Specifications** Typical product data should not be used as specifications. Assistance and specifications are available by contacting Momentive performance materials.

**Containers** **Silopren Electro 242-15 HVI grey** is available in 20 kg pails and 200 kg drums.

**Instructions for Use** Ready-to-use mixtures (of the components A and B) are fed directly to the injection-moulding machine from the original containers by means of a metering and mixing unit. The mixture, consisting of the two components in the ratio 1:1, is injected into the heated mould. At mould temperatures of 170 - 230°C, the addition-crosslinking silicone rubber vulcanizes free of dissociation products within a few seconds. High curing speed and easy demoulding permit fully automated production of large numbers of articles in short cycle times.

**Handling and Safety** Material Safety Data Sheets are available upon request from Momentive performance materials.

**Storage Period** Correctly stored in its original unopened container at room temperature (max. 27°C). **Silopren Electro 242-15 HVI grey** has a shelf life of 6\*\* 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 242-15 HVI grey** may be ordered from your regular sales contact or please call Momentive performance materials, Bergen-op-Zoom, Netherlands at 00800-4321-1000 to find out which is the nearest sales office to you.



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