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Silicone rubber

RUTESIL T-161

Features

Silicone rubber for high voltage insulators.

Application

Suitable for molding, injection and extrusion. It is recommended for manufacture high voltage insulators and cable accessories.

Typical product data

Property	Test method	Value
Appearance		Milky white
Specific gravity at 20 ^{0}C, g/cm^3	ISO 1183-1 A	1,42 ±0,03
Curing agent: 50 % paste of 2,5-bis-(t-butylperoxy)-2,5-dimethyl hexane in silicone rubber (Cure conditions - 10 min. / 170 ^{0}C, post-cure – min 2 h / 200 ^{0}C), 1,0 phr		
Hardness Shore A	DIN 53505	62 ±5
Elongation at break, %, min	DIN 53504 S1	250
Tensile strength, MPa, min	DIN 53504 S1	5,0
Volume resistivity, Ω·cm, min	IEC 60093	$7 \cdot 10^{14}$
Dielectric strength, kV/mm, min	IEC 60243	22
Dielectric constant (50 Hz)	IEC 60250	3 – 4
Dielectric loss tangent (tan δ), max	IEC 60250	0,03
Flamme grade (Class) (3 mm)	UL 94	FV-0
Tracking resistance (class)	IEC 60587	1A4,5

These values are intended as a guide and should not be used in preparing specifications.

Storage

Silicone rubber should be stored in the original unopened boxes at dry conditions at room temperature (max. 30 deg. C). The shelf life is 12 months from date of manufacture on the product label or on the associated Certificate of Analysis. At the end of the shelf life period, the product can be used after re-checking the properties.

Safety information

The product is stable and not dangerous under normal conditions.

Detailed safety information is contained in material safety data sheet.