

SABIC Innovative Plastics ULTEM SILTEM-STM1500 PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

SILTEM STM1500 is a flexible siloxane-polyetherimide copolymer for cable and wire coatings. RoHS compliant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-SILTEM-STM1500-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption at Saturation	0.12 %	0.12 %	ISO 62
Linear Mold Shrinkage, Flow	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	8.0 g/10 min @Load 2.16 kg, Temperature 320 °C	8.0 g/10 min @Load 4.76 lb, Temperature 608 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	50 mm/min; ISO 527
Tensile Strength, Yield	20.0 MPa	2900 psi	50 mm/min; ISO 527
Elongation at Break	110 %	110 %	50 mm/min; ISO 527
Elongation at Yield	15 %	15 %	50 mm/min; ISO 527
Tensile Modulus	0.590 GPa	85.6 ksi	1 mm/min; ISO 527
Flexural Strength	18.0 MPa	2610 psi	2 mm/min; ISO 178
Flexural Yield Strength	20.0 MPa	2900 psi	2 mm/min; ISO 178
Flexural Modulus	0.470 GPa	68.2 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1A
	15.0 kJ/m ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	80*10*4; ISO 180/1U

Mechanical Properties	Metric	English	Comments
100 Cycles			SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 Âµm/m-Â°C	61.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
Vicat Softening Point	75.0 Â°C	167 Â°F	Rate B/50; ISO 306
	78.0 Â°C	172 Â°F	Rate B/120; ISO 306
Flammability, UL94	V-1	V-1	UL 94 by SABIC-IP
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	48 %	48 %	ISO 4589
Glow Wire Test	960 Â°C	1760 Â°F	IEC 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.70e+14 ohm-cm	4.70e+14 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0091	0.0091	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	>= 100 V	>= 100 V	IEC 60112
	175 V	175 V	IEC 60112

Descriptive Properties	Value	Comments
Ball Pressure Test, 75Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

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