

Product Texts

SILTEM™ STM1500 resin is a flexible polyetherimide(PEI)-siloxane copolymer for cable and wire coatings. RoHS compliant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	320	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	590	MPa	ISO 527
Yield stress	20	MPa	ISO 527
Yield strain	15	%	ISO 527
Stress at break	25	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	470	MPa	ISO 178
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	25	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	15	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	75	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	78	°C	ISO 306
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (3)	3.2	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3	-	IEC 62631-2-1
Dissipation factor, 100Hz	91	E-4	IEC 62631-2-1
Volume resistivity	4.7E12	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Comparative tracking index	175	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	0.12	%	Sim. to ISO 62
Density	1180	kg/m ³	ISO 1183

Characteristics

Processing

Injection Molding

Regional Availability

Europe

Certifications

RoHS compliant