

**Product Texts**

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

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>12</b>	g/10min	ASTM D 1238
Temperature	<b>295</b>	°C	-
Load	<b>6.6</b>	kg	-

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>28</b>	MPa	ASTM D 638
Elongation at Break	<b>100</b>	%	ASTM D 638
Taber Abrasion Resistance	<b>26</b>	mg/1000 cycles	ASTM D 1044

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>16.3</b>	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	<b>0.01</b>	-	ASTM D 150
Dielectric Constant, 60 Hz	<b>3.01</b>	-	ASTM D 150
Surface Resistivity	<b>1E15</b>	Ohm	ASTM D 257
Volume Resistivity	<b>&gt;1E15</b>	Ohm*cm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1180</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>105</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>300 - 320</b>	°C	-
Mold temperature	<b>65 - 95</b>	°C	-
Zone 1	<b>295 - 315</b>	°C	-
Zone 2	<b>295 - 315</b>	°C	-
Zone 3	<b>295 - 315</b>	°C	-
Screw speed	<b>50 - 100</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America

**Certifications**

RoHS compliant