

**ESD 2184 EM**

PEI-CF25

RTP Company

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.001</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Modulus	<b>14480</b>	MPa	ASTM D 638
Tensile Strength	<b>214</b>	MPa	ASTM D 638
Flexural Modulus	<b>16890</b>	MPa	ASTM D 790
Flexural Strength	<b>294</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>58.7</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-0</b>	-	UL 94
Thickness tested	<b>1.59</b>	mm	-
DTUL @ 66 psi	<b>210</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>207</b>	°C	ASTM D 648
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Surface Resistivity	<b>100000</b>	Ohm	ASTM D 257
Volume Resistivity	<b>1000</b>	Ohm*cm	ASTM D 257
<b>Other properties</b>			
Water Absorption, 24hr	<b>0.2</b>	%	ASTM D 570
Density	<b>1370</b>	kg/m <sup>3</sup>	ASTM D 792
Moisture Content	<b>0.04</b>	%	-
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>149</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Melt temperature	<b>354 - 399</b>	°C	-
Mold temperature	<b>135 - 177</b>	°C	-
Injection pressure	<b>82.7 - 124</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Increased electrical conductivity