

## Samsung Cheil Industries Infino® EM-8240C MPPE, Glass Filled

Categories: [Polymer](#); [Thermoplastic](#); [Polyphenylene Ether/PPQ](#)

Material Notes: MPPE/GF material that is used in the main frame of banknote sorters

Information provided by Samsung Cheil Industries.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm @Thickness 3.20 mm	0.0020 - 0.0030 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	25 g/10 min @Load 10.0 kg, Temperature 280 °C	25 g/10 min @Load 22.0 lb, Temperature 536 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	98.1 MPa	14200 psi	5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	5 mm/min; ASTM D638
Flexural Strength	118 MPa	17100 psi	2.8 mm/min; ASTM D790
Flexural Modulus	9.32 GPa	1350 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 3.17 mm	0.918 ft-lb/in @Thickness 0.125 in	ASTM D256

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm @Temperature 23.0 °C	1.00e+6 ohm-cm @Temperature 73.4 °F	50% RH; ASTM 257
Static Decay	<= 1.0 sec @Temperature 23.0 °C	<= 1.0 sec @Temperature 73.4 °F	50% RH; JIS L1049

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	130 °C @Thickness 6.40 mm	266 °F @Thickness 0.252 in	ASTM D648

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.