RTP EMI 1060.5

Polybutylene Terephthalate

RTP Company

Technical Data

Product Description

Warning: The status of this material is 'Commercial: Limited Issue'

The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.

General

Filler / Reinforcement	• Stainless Steel Fiber, 5.0% Filler by Weight		
Features	• Electromagnetic Shielding (EMI)	• ESD Protection	• Radio Frequency Shielding (RFI)
RoHS Compliance	• Contact Manufacturer		
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.35	g/cm³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18 mm, Injection Molded	1.5 to 2.0	%	
Water Absorption (24 hr, 23°C)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	3100	MPa	ASTM D638
Tensile Strength	52.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus (Injection Molded)	2760	MPa	ASTM D790
Flexural Strength (Injection Molded)	83.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
3.18 mm, Injection Molded	37	J/m	
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D4812
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	10	ohms·cm	ASTM D257

Additional Information

Static Decay MIL-PRF-81705D, FTMS-4046.1: 2 sec

Injection	Nominal Value	Unit
Rear Temperature	216 to 243	°C
Middle Temperature	216 to 243	°C
Front Temperature	216 to 243	°C
Mold Temperature	63 to 82	°C
Injection Pressure	69.0 to 103	MPa

Notes

[1] Typical properties: these are not to be construed as specifications.