

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.