

RTP 2287 HM

Polyetheretherketone

RTP Company

Message:

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.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Good Stiffness		
	High Strength		
Uses	Metal Replacement		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.050	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	44800	MPa	ASTM D638
Tensile Strength	207	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	31700	MPa	ASTM D790
Flexural Strength	331	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	480	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	288	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	3.0	hr	

Suggested Max Moisture	0.10	%
Suggested Max Regrind	20	%
Rear Temperature	357 to 427	°C
Middle Temperature	357 to 427	°C
Front Temperature	357 to 427	°C
Mold Temperature	177 to 260	°C
Injection Pressure	103 to 207	MPa
Back Pressure	0.345 to 0.689	MPa
Clamp Tonnage	6.9 to 11	kN/cm ²

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Recommended distributors for this material

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