

RTP 4281

Thermoplastic Polyimide

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.
RTP 4200 Series are TPI, an injection moldable thermoplastic polyimide with superior heat and chemical resistance. Carbon fiber reinforcement grades provide outstanding strengths and stiffness.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Features	Rigid, good		
	High strength		
	Good chemical resistance		
	Heat resistance, high		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	126		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	179	MPa	ASTM D638
--	179	MPa	ASTM D638
Tensile Elongation (Break)	2.4	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength			ASTM D790
--	262	MPa	ASTM D790
Yield	262	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.18 mm)	69	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	277	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Additional Information			
The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 14mil/in.			
Injection	Nominal Value	Unit	
Rear Temperature	371 - 416	°C	
Middle Temperature	371 - 416	°C	
Front Temperature	371 - 416	°C	
Mold Temperature	166 - 204	°C	
Injection Pressure	138 - 193	MPa	

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Recommended distributors for this material

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