

# RTP 4283

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 4280 Series are TPI, an injection moldable thermoplastic polyimide with superior heat and chemical resistance. Carbon fiber reinforced grades provide outstanding strengths and stiffness.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% 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	1.35	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17200	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	241	MPa	ASTM D638
--	207	MPa	ASTM D638
Tensile Elongation (Break)	2.3	%	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength			ASTM D790
--	317	MPa	ASTM D790
Yield	331	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	750	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	316	°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.: 7mil/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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