

RTP 4087 UP

Polyphthalamide

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."

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Moisture Content	0.050	%	
Primary Additive	40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	41500	MPa	ISO 527-2
Tensile Stress	360	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	1.4	%	ISO 527-2
Flexural Modulus (Injection Molded)	34500	MPa	ISO 178
Flexural Stress (Injection Molded)	580	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹ (Injection Molded)	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ² (Injection Molded)	80	kJ/m ²	ISO 180/1U
Additional Information	Nominal Value	Unit	
Data listed is for natural or black colored materials. Pigments can affect properties.Desiccant Type Dryer Required.			
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	105	°C	
Drying Time - Desiccant Dryer	4.0 - 6.0	hr	
Dew Point	-30.0	°C	
Processing (Melt) Temp	300 - 330	°C	
Mold Temperature	135 - 160	°C	
Injection Pressure	70.0 - 125	MPa	
NOTE			
1.	4mm thickness		
2.	4mm thickness		

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