

RTP 4001 TFE 13

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	Glass Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (13%)		
Features	Lubricated		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18 mm, Injection Molded	0.70 to 0.90	%	
6.35 mm, Injection Molded	1.0 to 1.2	%	
Water Absorption (23°C, 24 hr)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	5510	MPa	ASTM D638
Tensile Strength	91.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	2.0	%	ASTM D638
Flexural Modulus (Injection Molded)	4820	MPa	ASTM D790
Flexural Strength (Injection Molded)	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	450	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	280	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	296 to 324	°C	
Middle Temperature	296 to 324	°C	
Front Temperature	296 to 324	°C	

Mold Temperature	135 to 163	°C
Injection Pressure	69.0 to 124	MPa

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Recommended distributors for this material

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