

RTP 4005A SI 2

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,30% Filler by Weight		
Additive	Silicone Lubricant (2%)		
Features	Lubricated		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm, Injection Molded)	0.40 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	11000	MPa	ASTM D638
Tensile Strength	169	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	1.8	%	ASTM D638
Flexural Modulus (Injection Molded)	10300	MPa	ASTM D790
Flexural Strength (Injection Molded)	262	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	110	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	490	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	277	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Rear Temperature	316 to 338	°C	

Middle Temperature	316 to 338	°C
Front Temperature	316 to 338	°C
Mold Temperature	66.0 to 163	°C
Injection Pressure	69.0 to 103	MPa

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Recommended distributors for this material

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