

RTP 4005.3 FR A

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.

Glass Fiber 33% - Flame Retardant

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability Flame retardancy		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.15 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.16	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14500	MPa	ASTM D638
Tensile Strength	152	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (18300 mm)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	266	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Additional Information			
Dew Point: -25°F Volume Resistivity, ASTM D257: > 1E15 ohm-cm			
Injection	Nominal Value	Unit	

Drying Temperature	79.4	°C
Drying Time	6.0	hr
Suggested Max Moisture	0.050	%
Processing (Melt) Temp	302 - 329	°C
Mold Temperature	135 - 163	°C
Injection Pressure	68.9 - 124	MPa

Injection instructions

Desiccant Type Dryer Required.

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Recommended distributors for this material

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