

RTP 4005 FR A L

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 30% - Flame Retardant - Lubricated

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
	Lubricant		
Features	Thermal Stability		
	Lubrication		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.15 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13100	MPa	ASTM D638
Tensile Strength	145	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	12800	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	85	J/m	ASTM D256
Unnotched Izod Impact (18300 mm)	640	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°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 Tensile Elongation, ASTM D638: 1 to 2% 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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