

RTP 4009 A

Polyphthalamide

RTP Company

Message:

Glass Fiber

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Moisture Content	0.10	%	
Primary Additive	50	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16500	MPa	ASTM D638
Tensile Strength	234	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 - 3.0	%	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	359	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	120	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	910	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	279	°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 (1.50 mm, ** Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	107	°C	
Drying Time	4.0 - 6.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	329 - 343	°C	
Mold Temperature	65.6 - 163	°C	

Injection Pressure	68.9 - 103	MPa
Injection instructions		

Desiccant Type Dryer Required.

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Recommended distributors for this material

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