

RTP 4000 AF-1115 V0

Polyphthalamide

RTP Company

Message:

Glass Fiber - Mineral - Flame Retardant

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
	Mineral filler		
Features	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.28	%	ASTM D570
Moisture Content	0.050	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	127		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8960	MPa	ASTM D638
Tensile Strength	124	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 - 2.5	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	37	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	320	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	262	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹ (in Oil)	28	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	107	°C	
Drying Time	4.0 - 6.0	hr	
Dew Point	-31.7	°C	

Processing (Melt) Temp	302 - 329	°C
Mold Temperature	135 - 163	°C
Injection Pressure	68.9 - 124	MPa

Injection instructions

Desiccant Type Dryer Required.

NOTE

1. Method A (short time)

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