

RTP 4087 A FR

Polyphthalamide

RTP Company

Message:

Carbon Fiber - Flame Retardant

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
Features	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.15	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.18	%	ASTM D570
Moisture Content	0.10	%	
Primary Additive	40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	37900	MPa	ASTM D638
Tensile Strength	228	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	33800	MPa	ASTM D790
Flexural Strength	359	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	640	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	277	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+5	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 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	-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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