

RTP 1087

Polybutylene Terephthalate

RTP Company

Message:

Carbon Fiber

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.15	%	ASTM D955
Moisture Content	0.030	%	
Primary Additive	40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	27600	MPa	ASTM D638
Tensile Strength	159	MPa	ASTM D638
Tensile Elongation (Yield)	0.50 - 2.0	%	ASTM D638
Flexural Modulus	22100	MPa	ASTM D790
Flexural Strength	228	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	480	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 10	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	121	°C	
Drying Time	4.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	238 - 271	°C	
Mold Temperature	79.4 - 107	°C	
Injection Pressure	68.9 - 103	MPa	
Injection instructions			

Desiccant Type Dryer Required.

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