

RTP 985

Polysulfone
RTP Company

Message:
Carbon Fiber

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.010	%	ASTM D955
Moisture Content	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	20700	MPa	ASTM D638
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Yield)	1.2	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	43	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)	177	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+6	ohms	ASTM D257
Volume Resistivity	< 1.0E+3	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm, ** Values per RTP Company testing.)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	135	°C	
Drying Time	4.0	hr	
Dew Point	-31.7	°C	
Processing (Melt) Temp	332 to 371	°C	
Mold Temperature	93.3 to 149	°C	
Injection Pressure	68.9 to 124	MPa	

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Recommended distributors for this material

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