

RTP 3483-3

Liquid Crystal Polymer

RTP Company

Message:

Carbon Fiber

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.010	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	24800	MPa	ASTM D638
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Yield)	1.7	%	ASTM D638
Flexural Modulus	20700	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	96	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)	282	°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 (3.00 mm, ** Values per RTP Company testing.)	V-0		UL 94
Additional Information	Nominal Value	Unit	
Primary Additive	20	%	
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	8.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	332 - 366	°C	
Mold Temperature	65.6 - 121	°C	
Injection Pressure	82.7 - 124	MPa	
Injection instructions			

The key to successfully molding this material is to start mold open cycles as soon as the screw reaches its retracted position.

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Recommended distributors for this material

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