

# RTP 3499-4 X 130910 A

Liquid Crystal Polymer

RTP Company

Message:

Carbon Fiber - Electrically Conductive

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15900	MPa	ASTM D638
Tensile Strength	123	MPa	ASTM D638
Tensile Elongation (Yield)	1.1	%	ASTM D638
Flexural Modulus	15900	MPa	ASTM D790
Flexural Strength	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	350	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	297	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+6	ohms	ASTM D257
--	< 1.0E+5	ohms	ESD STM11.11
Volume Resistivity	< 10	ohms · cm	ASTM D257
Static Decay		sec	FTMS 101C 4046.1
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	149	°C	
Drying Time	8.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	366	°C	
Mold Temperature	93.3	°C	

Injection Pressure	68.9 - 124	MPa
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#### 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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