

RTP 4099 X 123510 A

Polyphthalamide

RTP Company

Message:

Carbon Fiber - Aramid Fiber - Impact Modified - PTFE Lubricated - Silicone Lubricated

General Information			
Filler / Reinforcement	Aramid fiber		
	Carbon fiber reinforced material		
Additive	PTFE lubricant		
	Impact modifier		
	Silicone lubricant		
Features	Impact modification		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.25	%	ASTM D955
Moisture Content	0.050	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8960	MPa	ASTM D638
Tensile Strength	145	MPa	ASTM D638
Tensile Elongation (Yield)	2.5 - 3.5	%	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	200	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)	590	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+6	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	107	°C
Drying Time	4.0 - 6.0	hr
Dew Point	-31.7	°C
Processing (Melt) Temp	302 - 329	°C
Mold Temperature	135 - 163	°C
Injection Pressure	68.9 - 124	MPa

Injection instructions

Desiccant Type Dryer Required.

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Recommended distributors for this material

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