

RTP 4081 AR 10 TFE 20

Polyphthalamide

RTP Company

Message:

Carbon Fiber - Aramid Fiber - PTFE Lubricated

General Information			
Filler / Reinforcement	Aramid fiber, 10% filler by weight		
	Carbon fiber reinforced material, 10% filler by weight		
Additive	PTFE lubricant (20%)		
Features	Lubrication		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.15 - 0.40	%	ASTM D955
Moisture Content	0.050	%	
Primary Additive	10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength	155	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.5	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	370	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+5	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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