

RTP ESD A 4080

Polyphthalamide

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Antistatic property		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15200	MPa	ASTM D638
Tensile Strength	155	MPa	ASTM D638
Tensile Elongation (Break)	1.3	%	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	248	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	320	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	277	°C	ASTM D648
CLTE - Flow	2.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+10	ohms	ASTM D257
Volume Resistivity	5.0E+7	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 2mil/in. Volume Resistivity, ASTM D257: 1E6-1E9 ohm-cm Surface Resistivity, ASTM D257: 1E9-1E12 ohms/sq

Injection	Nominal Value	Unit
Rear Temperature	304 - 343	°C
Middle Temperature	304 - 343	°C
Front Temperature	304 - 343	°C
Mold Temperature	135 - 163	°C
Injection Pressure	68.9 - 138	MPa

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Recommended distributors for this material

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