

RTP 2200 AR 35

Polyetheretherketone

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.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Aramid fiber, 35% filler by weight		
RoHS Compliance	Contact manufacturer		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6890	MPa	ASTM D638
Tensile Strength	103	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Coefficient of Friction (With Metal-Dynamic)	0.16		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
CLTE - Flow	2.9E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.32	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Additional Information			

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 7mil/in.Tensile Elongation, ASTM D-638: 2-3%Wear Factor, K, ASTM D-3702: 50E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.16The wear factor and coefficient of friction were both tested on a Falex Model No.6 Wear Testing Machine at 50 FPM, 2000 PV, against C1018 steel of hardness 15-25 Rockwell C, 14-17 micro smoothness.

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.10	%
Suggested Max Regrind	20	%
Rear Temperature	357 - 399	°C
Middle Temperature	357 - 399	°C
Front Temperature	357 - 399	°C
Mold Temperature	149 - 204	°C
Injection Pressure	68.9 - 103	MPa
Back Pressure	0.345 - 0.689	MPa
Clamp Tonnage	6.9 - 11	kN/cm ²

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