

RTP 227A UV Black Black

Polyamide 6

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.
RTP 227A UV is a mineral reinforced nylon 6. It has excellent moldability, good dimensional stability, and is UV resistant.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Mineral filler, 40% filler by weight		
Additive	UV stabilizer		
Features	Good UV resistance		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength	68.9	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	121	MPa	ASTM D790
Compressive Strength	100	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	450	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	185	°C	ASTM D648
CLTE - Flow	4.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.59	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149

Dielectric Constant (1 MHz)	3.90		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Arc Resistance	115	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 8mil/in.

Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Suggested Max Regrind	20	%
Rear Temperature	238 - 266	°C
Middle Temperature	238 - 266	°C
Front Temperature	238 - 266	°C
Mold Temperature	71.1 - 93.3	°C
Injection Pressure	68.9 - 138	MPa

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Recommended distributors for this material

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