

RTP 227A Z

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.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Agency Ratings	FDA Unspecified Rating		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18 mm, Injection Molded	0.60	%	
6.35 mm, Injection Molded	0.80	%	
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 (Injection Molded)	6890	MPa	ASTM D638
Tensile Strength	69.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	3.0	%	ASTM D638
Flexural Modulus (Injection Molded)	6200	MPa	ASTM D790
Flexural Strength (Injection Molded)	121	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	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, Injection Molded)	185	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	221 to 271	°C	
Middle Temperature	221 to 271	°C	

Front Temperature	221 to 271	°C
Mold Temperature	54.0 to 93.0	°C
Injection Pressure	69.0 to 103	MPa

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Recommended distributors for this material

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