

RTP 227 FR

Polyamide 66

RTP Company

Message:

Mineral - Flame Retardant

General Information			
Filler / Reinforcement	Mineral filler, 40% filler by weight		
Features	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Moisture Content	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8960	MPa	ASTM D638
Tensile Strength	68.9	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	27	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	210	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	227	°C	ASTM D648
1.8 MPa, not annealed	149	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength ¹ (in Oil)	16	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.12		ASTM D150
Dissipation Factor (1 MHz)	0.017		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94
Oxygen Index	34	%	ASTM D2863

Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	4.0	hr
Dew Point	-17.8	°C
Processing (Melt) Temp	277 - 299	°C
Mold Temperature	65.6 - 107	°C
Injection Pressure	68.9 - 124	MPa

Injection instructions

Desiccant Type Dryer Required.

NOTE

1. Method A (short time)

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