

RTP 205 FR SP

Polyamide 66

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.
Glass Fiber 30% - Flame Retardant - UL94 V-0

General Information			
UL YellowCard	E84658-251378		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.25 - 0.35	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12100	MPa	ASTM D638
Tensile Strength	165	MPa	ASTM D638
Tensile Elongation (Yield)	2.5	%	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	241	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	750	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	249	°C	ASTM D648
1.8 MPa, not annealed	232	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength ¹ (in Oil)	19	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.40		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.800 mm)	V-0	UL 94
Oxygen Index	36	% ASTM D2863
Additional Information		
Dew Point: 0°FMoisture Content: 0.2%Tensile Elongation, ASTM D638: 2 to 3%Volume Resistivity, ASTM D257: >1E+14 ohm-cm		
Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	4.0	hr
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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