

RTP 200 A

Polyamide 6

RTP Company

Message:

Unreinforced - UL94 V-2 (NC) - UL94 HB (All Colors)

General Information			
UL YellowCard	E84658-251366		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.3 - 1.7	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.9	%	ASTM D570
Moisture Content	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength	75.8	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	171	°C	ASTM D648
1.8 MPa, not annealed	71.1	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+11	ohms · cm	ASTM D257
Dielectric Strength ¹ (in Oil)	16	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.40		ASTM D150
Dissipation Factor (1 MHz)	0.030		ASTM D150
Flammability	Nominal Value	Unit	Test Method
HB			
Flame Rating (0.800 mm)	V-2		UL 94

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	2.0	hr
Dew Point	-17.8	°C
Processing (Melt) Temp	243 - 279	°C
Mold Temperature	54.4 - 93.3	°C
Injection Pressure	68.9 - 103	MPa

Injection instructions

Desiccant Type Dryer Required.

NOTE

1. Method A (short time)

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