

RTP 2500 FR-110

Polycarbonate + ABS

RTP Company

Message:

Flame Retardant - Halogen Free - UL94 V-0

General Information			
UL YellowCard	E84658-251335		
Features	Halogen-free		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	35 - 50	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Moisture Content	0.020	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2550	MPa	ASTM D638
Tensile Strength	55.2	MPa	ASTM D638
Tensile Elongation (Break)	> 80	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	86.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	640	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	2100	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	96.1	°C	ASTM D648
1.8 MPa, not annealed	87.8	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm)	5VB		UL 94
Oxygen Index	30	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	
Drying Time	4.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	243 - 274	°C	
Mold Temperature	51.7 - 93.3	°C	
Injection Pressure	68.9 - 103	MPa	
Injection instructions			

Desiccant Type Dryer Required.

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