

Reny® 1722F

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 1722F is a Polyarylamide (PARA) material filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Reny® 1722F: Flame Rated.

General Information				
UL YellowCard		E41179-231752		
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		Paintable		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.65	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	20	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	12.5	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.48	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.13	--	%	
Equilibrium, 23°C, 50% RH	0.70	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	20700	19100	MPa	ISO 527-2
Tensile Stress (Break)	244	208	MPa	ISO 527-2
Tensile Strain (Break)	2.0	1.7	%	ISO 527-2
Flexural Modulus	18900	18800	MPa	ISO 178
Flexural Stress	381	319	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	58	54	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	237	235	°C	ISO 75-2/B
1.8 MPa, Unannealed	226	219	°C	ISO 75-2/A
Flammability	Dry	Conditioned	Test Method	
Flame Rating (1.60 mm)	HB	--	UL 94	
Injection	Dry	Unit		

Drying Temperature		
A	120	°C
B	80.0	°C
Drying Time		
A	> 3.0	hr
B	> 12	hr
Rear Temperature	270	°C
Middle Temperature	275	°C
Front Temperature	280	°C
Nozzle Temperature	280	°C
Mold Temperature	120 to 140	°C
Injection Pressure	20.0 to 150	MPa
Injection Rate	Moderate-Fast	
Screw Speed	60 to 150	rpm

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