

Reny® F34

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® F34 is a Polyarylamide (PARA) material filled with 30% whisker. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Reny® F34 are:

Flame Rated

Wear Resistant

General Information			
UL YellowCard	E41179-231788		
Filler / Reinforcement	Whisker,30% Filler by Weight		
Features	Good Wear Resistance		
	Low Friction		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	19	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	11.5	cm ³ /10min	ISO 1133
Molding Shrinkage	0.65	%	
Water Absorption (Saturation, 23°C)	0.24	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13100	MPa	ISO 527-2
Tensile Stress (Break)	105	MPa	ISO 527-2
Tensile Strain (Break)	1.0	%	ISO 527-2
Flexural Modulus	12300	MPa	ISO 178
Flexural Stress	230	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.9	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	33	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	225	°C	ISO 75-2/B
1.8 MPa, Unannealed	183	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
A	120	°C	

B	80.0	°C
Drying Time		
A	> 3.0	hr
B	> 12	hr
Rear Temperature	275	°C
Middle Temperature	280	°C
Front Temperature	285	°C
Nozzle Temperature	285	°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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Recommended distributors for this material

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