

Reny® 1071

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 1071 is a Polyarylamide (PARA) material filled with 55% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Primary attribute of Reny® 1071: Flame Rated.

Typical application of Reny® 1071: Engineering/Industrial Parts

General Information				
Filler / Reinforcement		Glass Fiber,55% Filler by Weight		
Uses		Thick-walled Parts		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.70	--	g/cm ³	ISO 1183
Molding Shrinkage	0.21	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.10	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	24900	23700	MPa	ISO 527-2
Tensile Stress (Break)	264	237	MPa	ISO 527-2
Tensile Strain (Break)	1.6	1.6	%	ISO 527-2
Flexural Modulus	20600	20900	MPa	ISO 178
Flexural Stress	423	384	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	16	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	83	66	kJ/m²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	--	°C	ISO 75-2/A
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	3.0E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned	Test Method	
Flame Rating	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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