

Reny® G16S

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® G16S is a Polyarylamide (PARA) material filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Reny® G16S are:

Flame Rated

Wear Resistant

General Information				
Filler / Reinforcement		Glass Fiber,20% Filler by Weight		
Features		Good Wear Resistance		
		Low Friction		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.43	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	8.8	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	6.10	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.15	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.12	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	20200	19900	MPa	ISO 527-2
Tensile Stress (Break)	230	205	MPa	ISO 527-2
Tensile Strain (Break)	1.6	1.6	%	ISO 527-2
Flexural Modulus	18800	18200	MPa	ISO 178
Flexural Stress	338	294	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.4	4.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	39	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	240	234	°C	ISO 75-2/A
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	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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