

Reny® 1313H

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 1313H is a Polyarylamide (PARA) material filled with 40% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Reny® 1313H are:

Flame Rated

Impact Resistant

General Information				
UL YellowCard		E41179-231742		
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Features		High Impact Resistance		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/3.8 kg)	2.3	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (280°C/3.8 kg)	2.70	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.52	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.21	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12000	11000	MPa	ISO 527-2
Tensile Stress (Break)	162	136	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.4	%	ISO 527-2
Flexural Modulus	11600	10900	MPa	ISO 178
Flexural Stress	258	219	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	66	55	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	235	231	°C	ISO 75-2/B
1.8 MPa, Unannealed	217	207	°C	ISO 75-2/A
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	

Transverse	6.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	3.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+15	ohms·cm	IEC 60093
Electric Strength				IEC 60243-1
1.00 mm	27	28	kV/mm	
2.00 mm	24	22	kV/mm	
Relative Permittivity				IEC 60250
100 Hz	--	5.00		
1 MHz	--	4.00		
Dissipation Factor				IEC 60250
100 Hz	--	0.020		
1 MHz	--	0.015		
Comparative Tracking Index	> 600	> 600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	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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