

Reny® 1521AH

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 1521AH is a Polyarylamide (PARA) material filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Reny® 1521AH are:

Flame Rated

Flame Retardant

General Information			
UL YellowCard	E41179-231751		
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.73	g/cm ³	ISO 1183
Molding Shrinkage	0.47	%	
Water Absorption			ISO 62
Saturation, 23°C	0.13	%	
Equilibrium, 23°C, 50% RH	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	20600	MPa	ISO 527-2
Tensile Stress (Break)	215	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	18900	MPa	ISO 178
Flexural Stress	339	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	49	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	238	°C	ISO 75-2/B
1.8 MPa, Unannealed	228	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Electric Strength			IEC 60243-1
2.00 mm	20	kV/mm	
3.00 mm	17	kV/mm	
Comparative Tracking Index	350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		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	260	°C
Middle Temperature	265	°C
Front Temperature	270	°C
Nozzle Temperature	270	°C
Mold Temperature	120 to 145	°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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