

Reny™ XJ1521L

Mitsubishi Engineering-Plastics Corp - High Performance Polyamide

General Information				
Product Description				
GF-reinforced; None-Halogen V-0 (0.75mm); Bio-based, Plant-based; Water absorption, Low				
General				
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight			
Features	• Bromine Free • Flame Retardant	• Halogen Free • Low to No Water Absorption	• Renewable Resource Content	
Uses	• Automotive Applications • Automotive Electronics	• Electrical/Electronic Applications • General Purpose		
ASTM & ISO Properties ¹				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.74	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR)				ISO 1133
280°C/5.0 kg	17	--	cm³/10min	
Molding Shrinkage ²				Internal Method
Across Flow : 130°C, 2.00 mm	0.35	--	%	
Flow : 130°C, 2.00 mm	0.18	--	%	
Water Absorption				Internal Method
Equilibrium, 23°C, 50% RH	0.33	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	20000	18500	MPa	ISO 527-1/1
Tensile Stress (Break)	184	153	MPa	ISO 527-2/5
Tensile Strain (Break)	1.4	1.5	%	ISO 527-2/5
Flexural Modulus ³	18400	--	MPa	ISO 178
Flexural Stress ³	275	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	16	13	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
23°C	35	30	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	201	198	°C	
CLTE				ISO 11359-2
Flow	1.3E-5	--	cm/cm/°C	
Transverse	6.5E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm)	V-0	--		UL 94

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Additional Information

Conditioned

Conditioned to 50% RH

Processing Information

Injection	Dry	Unit
Drying Temperature		
Hot Air Dryer, A	120	°C
Hot Air Dryer, B	80	°C
Drying Time		
Hot Air Dryer, A	> 3.0	hr
Hot Air Dryer, B	> 12	hr
Rear Temperature	270	°C
Middle Temperature	275	°C
Front Temperature	280	°C
Nozzle Temperature	280	°C
Mold Temperature	100 to 140	°C
Injection Pressure	20.0 to 150	MPa
Injection Rate	Moderate-Fast	
Screw Speed	60 to 150	rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

² 100-mm square

³ 2.0 mm/min

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