

Reny™ 1521AH

Mitsubishi Engineering-Plastics Corp - Polyamide MXD6

General Information				
Product Description				
GF-reinforced; V-0				
General				
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight			
Features	• Flame Retardant			
Uses	• Automotive Applications • Automotive Electronics		• Electrical/Electronic Applications • General Purpose	
ASTM & ISO Properties ¹				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.73	--	g/cm³	ISO 1183
Molding Shrinkage ²				Internal Method
Across Flow : 130°C, 2.00 mm	0.53	--	%	
Flow : 130°C, 2.00 mm	0.26	--	%	
Water Absorption				Internal Method
24 hr, 23°C	0.13	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	20600	19000	MPa	ISO 527-1/1
Tensile Stress (Break)	215	180	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	1.7	%	ISO 527-2/5
Flexural Modulus ³	18900	15700	MPa	ISO 178
Flexural Stress ³	339	267	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	9.3	9.1	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
23°C	49	47	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	238	234	°C	ISO 75-2/B
1.8 MPa, Unannealed	228	222	°C	ISO 75-2/A
Electrical	Dry	Conditioned	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	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 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	265 °C
Middle Temperature	270 °C
Front Temperature	275 °C
Nozzle Temperature	275 °C
Mold Temperature	120 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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