

Reny™ N-252A

Mitsubishi Engineering-Plastics Corp - Polyamide MXD6

General Information

Product Description

GF-reinforced; Damping, Anti-vibration; Rigidity, High

General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight	
Features	• High Rigidity	• Vibration Damping
Uses	• Automotive Applications • Automotive Electronics	• Electrical/Electronic Applications • General Purpose

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.72	--	g/cm ³	ISO 1183
Molding Shrinkage ²				Internal Method
Across Flow : 130°C, 2.00 mm	0.42	--	%	
Flow : 130°C, 2.00 mm	0.31	--	%	
Water Absorption				Internal Method
24 hr, 23°C	0.24	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	20500	16900	MPa	ISO 527-1/1
Tensile Stress (Break)	147	122	MPa	ISO 527-2/5
Tensile Strain (Break)	1.1	1.3	%	ISO 527-2/5
Flexural Modulus ³	20300	15200	MPa	ISO 178
Flexural Stress ³	260	195	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	3.8	4.2	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
23°C	27	26	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	226	213	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	4.0E+15	2.0E+14	ohms	IEC 60093
Volume Resistivity	6.0E+15	7.0E+14	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	21	20	kV/mm	IEC 60243-1
Dielectric Constant				IEC 60250
1 MHz	5.00	5.00		
100 MHz	5.00	5.00		

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Electrical	Dry	Conditioned	Unit	Test Method
Dissipation Factor				IEC 60250
1 MHz	8.0E-3	0.018		
100 MHz	0.011	0.011		
Comparative Tracking Index	325	250	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94

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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