

Reny™ NXG5050NF

Mitsubishi Engineering-Plastics Corp - Polyamide MXD6

General Information

Product Description

GF-reinforced; None-Halogen V-0; Rigidity, High; Impact Resistance, High

General

Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight		
Features	• Bromine Free • Flame Retardant	• Good Impact Resistance • Halogen Free	• High Impact Resistance • High Rigidity
Uses	• Automotive Applications • Automotive Electronics	• Electrical/Electronic Applications • General Purpose	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	3.7	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	2.1	cm ³ /10min	ISO 1133
Molding Shrinkage ²			Internal Method
Across Flow : 130°C, 2.00 mm	0.55	%	
Flow : 130°C, 2.00 mm	0.25	%	
Water Absorption (24 hr, 23°C)	0.15	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21900	MPa	ISO 527-1/1
Tensile Stress (Break)	198	MPa	ISO 527-2/5
Tensile Strain (Break)	1.2	%	ISO 527-2/5
Flexural Modulus ³	18200	MPa	ISO 178
Flexural Stress ³	348	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	67	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	219	°C	
CLTE			ISO 11359-2
Flow	1.0E-5	cm/cm/°C	
Transverse	4.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Electric Strength (2.00 mm)	25	kV/mm	IEC 60243-1
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	V-0		UL 94

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Processing Information

Injection	Nominal Value	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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