

Reny™ 2051DS

Mitsubishi Engineering-Plastics Corp - High Performance Polyamide

General Information

Product Description

GF-reinforced; Warpage, Low; Rigidity, High

General

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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm ³	ISO 1183
Molding Shrinkage ²			Internal Method
Across Flow : 130°C, 2.00 mm	0.78	%	
Flow : 130°C, 2.00 mm	0.35	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15800	MPa	ISO 527-1/1
Tensile Stress (Break)	192	MPa	ISO 527-2/5
Tensile Strain (Break)	1.7	%	ISO 527-2/5
Flexural Modulus ³	15100	MPa	ISO 178
Flexural Stress ³	312	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	64	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	242	°C	
CLTE			ISO 11359-2
Flow	1.7E-5	cm/cm/°C	
Transverse	5.2E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Hot Air Dryer, A	120	°C
Hot Air Dryer, B	80	°C

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Injection	Nominal Value	Unit
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	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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