

General Information				
Product Description				
GF-reinforced; Abrasion Resistant				
General				
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight			
Features	• Abrasion Resistant			
Uses	• Automotive Applications • Automotive Electronics		• Electrical/Electronic Applications • General Purpose	
ASTM & ISO Properties ¹				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.71	--	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)				ISO 1133
275°C/2.16 kg	4.6	--	g/10 min	
Melt Volume-Flow Rate (MVR)				ISO 1133
275°C/2.16 kg	2.7	--	cm³/10min	
Molding Shrinkage ²				Internal Method
Across Flow : 130°C, 2.00 mm	0.62	--	%	
Flow : 130°C, 2.00 mm	0.33	--	%	
Water Absorption				Internal Method
24 hr, 23°C	0.10	--	%	
Equilibrium, 23°C, 50% RH	0.90	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	19700	19000	MPa	ISO 527-1/1
Tensile Stress (Break)	250	220	MPa	ISO 527-2/5
Tensile Strain (Break)	1.9	2.1	%	ISO 527-2/5
Flexural Modulus ³	18700	--	MPa	ISO 178
Flexural Stress ³	382	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	11	--	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
23°C	61	--	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	255	253	°C	ISO 75-2/B
1.8 MPa, Unannealed	246	240	°C	ISO 75-2/A
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94

Reny™ G-09S

Mitsubishi Engineering-Plastics Corp - High Performance Polyamide

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

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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