

Reny™ W-38S2

Mitsubishi Engineering-Plastics Corp - High Performance Polyamide

General Information				
Product Description				
Potassium titanate whisker-reinforced; Abrasion Resistant; HB equivalent per in-house testing				
General				
Filler / Reinforcement	• Whisker, 30% 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	1.64	--	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)				ISO 1133
275°C/2.16 kg	49	--	g/10 min	
Melt Volume-Flow Rate (MVR)				ISO 1133
275°C/2.16 kg	31	--	cm³/10min	
Molding Shrinkage ²				Internal Method
Across Flow : 130°C, 2.00 mm	0.65	--	%	
Flow : 130°C, 2.00 mm	0.35	--	%	
Water Absorption				Internal Method
24 hr, 23°C	0.12	--	%	
Equilibrium, 23°C, 50% RH	1.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16200	15900	MPa	ISO 527-1/1
Tensile Stress (Break)	121	111	MPa	ISO 527-2/5
Tensile Strain (Break)	0.90	0.80	%	ISO 527-2/5
Flexural Modulus ³	15200	15100	MPa	ISO 178
Flexural Stress ³	278	216	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	1.8	2.1	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
23°C	18	22	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	239	239	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	206	°C	ISO 75-2/A
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	4.0E-5	--	cm/cm/°C	

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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	2.0E+14	--	ohms	IEC 60093
Volume Resistivity	2.0E+15	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	26	--	kV/mm	IEC 60243-1

Additional Information

Conditioned	Conditioned to 50% RH
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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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