

General Information				
Product Description				
GF-reinforced; Electrically Conductive; Rigidity, High				
General				
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight			
Features	• Electrically Conductive	• High Rigidity		
Uses	• Automotive Applications • Automotive Electronics	• Electrical/Electronic Applications • General Purpose		
ASTM & ISO Properties ¹				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.66	--	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)				ISO 1133
275°C/2.16 kg	6.3	--	g/10 min	
Melt Volume-Flow Rate (MVR)				ISO 1133
275°C/2.16 kg	4.5	--	cm³/10min	
Molding Shrinkage ²				Internal Method
Across Flow : 130°C, 2.00 mm	0.60	--	%	
Flow : 130°C, 2.00 mm	0.29	--	%	
Water Absorption				Internal Method
24 hr, 23°C	0.090	--	%	
Equilibrium, 23°C, 50% RH	0.90	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	21600	18600	MPa	ISO 527-1/1
Tensile Stress (Break)	152	143	MPa	ISO 527-2/5
Tensile Strain (Break)	1.0	1.1	%	ISO 527-2/5
Flexural Modulus ³	19800	19100	MPa	ISO 178
Flexural Stress ³	235	228	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
23°C	7.3	7.5	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
23°C	16	16	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	235	232	°C	ISO 75-2/B
1.8 MPa, Unannealed	226	216	°C	ISO 75-2/A
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	4.0E-5	--	cm/cm/°C	

Reny™ 4011

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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+5	3.0E+6	ohms	IEC 60093
Volume Resistivity	3.0E+4	6.0E+10	ohms·cm	IEC 60093
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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