

4MID® 9B22140 I

Polyamide 6
4Plas

Message:

4MID 9B22140 I is a Standard Flow 40% Glass Fibre Reinforced Impact Modified PA6

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Additive	Impact modifier		
Features	Impact modification		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage			
Vertical flow direction	0.80	%	
Flow direction	0.20	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	1.8	%	ISO 62
Moisture Content	< 2000	ppm	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10500	MPa	ISO 527-2/5
Tensile Stress (Break, 23°C)	135	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	16	kJ/m ²	ISO 180/1A
23°C	18	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	210	°C	ISO 75-2/B
Vicat Softening Temperature	215	°C	ISO 306/B
Melting Temperature ²	223	°C	ISO 11357
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Comparative Tracking Index	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		UL 94
1.60 mm	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm)	650	°C	IEC 60695-2-13

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	230 - 270	°C
Mold Temperature	60.0 - 100	°C
Injection Rate	Moderate-Fast	
Holding Pressure	50.0 - 100	MPa
Screw Speed	400	rpm

Injection instructions

Feed Throat Temperature: 60 - 80 °C Back Pressure: Low

NOTE

1. 24 Hrs
2. 10 K/min

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