

4MID® 9B22130

Polyamide 6
4Plas

Message:

4MID 9B22130 is a Standard Flow 30% Glass Fibre Reinforced PA6

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage			
Vertical flow direction	1.0	%	
Flow direction	0.20	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	2.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9500	MPa	ISO 527-2/5
Tensile Stress (Break, 23°C)	175	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	11	kJ/m ²	ISO 180/1A
23°C	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	80	kJ/m ²	ISO 180/1U
23°C	90	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	210	°C	ISO 75-2/B
1.8 MPa, not annealed	205	°C	ISO 75-2/A
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
1.60 mm	HB		UL 94

3.20 mm	HB	UL 94
Glow Wire Flammability Index (2.00 mm)	550	°C IEC 60695-2-12
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	250 - 270	°C
Mold Temperature	60.0 - 100	°C
Injection Rate	Fast	
Holding Pressure	50.0 - 100	MPa
Screw Speed	< 200	rpm
Injection instructions		
Feed Throat Temperature: 60 - 80 °CBack Pressure: Low		
NOTE		
1.	24 Hrs	
2.	10 K/min	

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