4MID® 9B22150 GF50

Polyamide 6

4Plas

Message:

4MID 9B22150 is a Near Prime Standard Flow 50% Glass Fibre Reinforced PA6

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.55	g/cm³	ISO 1183
Water Absorption [1] (Equilibrium, 23°C, 50% RH)	1.5	%	ISO 62
Moisture Content	< 2000	ppm	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	13500	MPa	ISO 527-2/5
Tensile Stress (Break, 23°C)	160	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2/5
Flexural Modulus [2] (23°C)	10500	MPa	ISO 178
Flexural Stress [3] (23°C)	300	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	65	kJ/m²	ISO 179/1eU
23°C	75	kJ/m²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C	10	kJ/m²	ISO 180/1A
23°C	14	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	215	°C	ISO 75-2/B
1.8 MPa, not annealed	210	°C	ISO 75-2/A
Vicat Softening Temperature	210	°C	ISO 306/B
Melting Temperature [4]	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 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.	2.0 mm/min
3.	2.0 mm/min
4.	10 K/min

Recommended distributors for this material

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