

4MID® 9B22140 HUVW

Polyamide 6
4Plas

Message:

4MID 9B22140 HUVW is a Prime Standard Flow 40% Glass Fibre Reinforced Heat & UV Stabilised, Low Warp PA6

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 40% filler by weight		
Additive		heat stabilizer		
		UV stabilizer		
Features		Low warpage		
		Good UV resistance		
		Thermal Stability		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				
Vertical flow direction	0.90	--	%	
Flow direction	0.20	--	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	1.8	--	%	ISO 62
Moisture Content	< 2000	--	ppm	ISO 960
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12500	8000	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	160	110	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	--	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ISO 180/1A
-30°C	12	--	kJ/m ²	ISO 180/1A
23°C	14	--	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	70	--	kJ/m ²	ISO 180/1U
23°C	80	--	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	220	--	°C	ISO 75-2/B
1.8 MPa, not annealed	210	--	°C	ISO 75-2/A

Vicat Softening Temperature	215	--	°C	ISO 306/B
Melting Temperature ²	223	--	°C	ISO 11357
Electrical	Dry	Conditioned	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	Dry	Conditioned	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	Dry	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 °C Back Pressure: Low				
NOTE				
1.	24 Hrs			
2.	10 K/min			

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