Chemlon® MDF2

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

MDF2 is a heat stabilised 30% glass fibre reinforced nylon 6 that offers good mechanical performance coupled with good surface finish.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Additive	heat stabilizer			
Features	Thermal Stability Excellent appearance			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.37	--	g/cm³	ISO 1183
Molding Shrinkage [1]	0.70 - 1.2	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.9	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	8500	--	MPa	ISO 527-2
Tensile Stress	180	100	MPa	ISO 527-2
Tensile Strain (Break)	4.0	7.0	%	ISO 527-2
Flexural Modulus	7500	4000	MPa	ISO 178
Flexural Stress	230	100	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	15	--	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	55	--	kJ/m²	ISO 179/1eU
Notched Izod Impact	13	--	kJ/m²	ISO 180/A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	> 200	--	°C	ISO 75-2/B
1.8 MPa, not annealed	> 200	--	°C	ISO 75-2/A
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+15	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+17	--	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	11	8.0	kV/mm	IEC 60243-1
Relative Permittivity	3.80	4.20		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.080		IEC 60250

Comparative Tracking Index	500	--	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm)	HB	--		UL 94
Oxygen Index	22	--	%	ISO 4589-2

Injection	Dry	Unit
Drying Temperature	80.0	°C
Drying Time	2.0	hr
Rear Temperature	240 - 280	°C
Middle Temperature	240 - 280	°C
Front Temperature	240 - 280	°C
Processing (Melt) Temp	250 - 290	°C
Mold Temperature	60.0 - 90.0	°C
Injection Rate	Fast	
Back Pressure	Low	
Screw Speed	Moderate	

Injection instructions
No drying is necessary unless the material has been exposed to air for longer than three hours. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present.

NOTE	
1.	Mould shrinkage is significantly influenced by many factors including wall thickness, gating, moulding shape and processing conditions. The range values given are determined from specimen bar mouldings of 1.5mm to 4mm wall thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding).

Recommended distributors for this material

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