

Chemlon® MDF2

Teknor Apex Company (Chem Polymer) - Polyamide 6

Friday, June 30, 2017

General Information

Product Description

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

General

Material Status	• Commercial: Active		
Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Surface Finish	• Heat Stabilized	
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Molding Shrinkage ²	0.70 to 1.2	--	%	Internal Method
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	1.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.23E+6	--	psi	ISO 527-2
Tensile Stress	26100	14500	psi	ISO 527-2
Tensile Strain (Break)	4.0	7.0	%	ISO 527-2
Flexural Modulus	1.09E+6	580000	psi	ISO 178
Flexural Stress	33400	14500	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	7.1	--	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength	26	--	ft-lb/in ²	ISO 179/1eU
Notched Izod Impact Strength	6.2	--	ft-lb/in ²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	> 392	--	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	> 392	--	°F	
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
Electric Strength (0.118 in)	280	200	V/mil	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	--		IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.06 in)	HB			UL 94
Oxygen Index	22		%	ISO 4589-2

Processing Information

Injection	Dry	Unit
Drying Temperature	176	°F
Drying Time	2.0	hr

Revision Date: 3/20/2014

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Injection	Dry Unit
Rear Temperature	464 to 536 °F
Middle Temperature	464 to 536 °F
Front Temperature	464 to 536 °F
Processing (Melt) Temp	482 to 554 °F
Mold Temperature	140 to 194 °F
Injection Rate	Fast
Back Pressure	Low
Screw Speed	Moderate

Injection Notes

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.

Notes

¹ Typical properties: these are not to be construed as specifications.

² 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).

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