

Chemlon® MDF4L

Teknor Apex Company (Chem Polymer) - Polyamide 6

Friday, June 30, 2017

General Information

Product Description

MDF4L is a 15% glass fibre reinforced, UV stabilised nylon 6 that offers improved mechanical performance, coupled with good surface finish and weathering resistance. The stabiliser package is colourless in the natural compound.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Additive	• UV Stabilizer		
Features	• Good Surface Finish	• Light Stabilized	• Weather Resistant
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm ³	ISO 1183
Molding Shrinkage ²	1.0 to 1.6	--	%	Internal Method
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	841000	--	psi	ISO 527-2
Tensile Stress	14500	10200	psi	ISO 527-2
Tensile Strain (Yield)	3.0	--	%	ISO 527-2
Flexural Modulus	754000	392000	psi	ISO 178
Flexural Stress	23900	12300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.8	14	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength	14	--	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength	3.1	--	ft·lb/in ²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 66 psi, Unannealed	> 392	--	°F	ISO 75-2/B
Heat Deflection Temperature 264 psi, Unannealed	374	--	°F	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+14	ohms·cm	IEC 60093
Electric Strength (0.118 in)	280	200	V/mil	IEC 60243-1
Comparative Tracking Index	525	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	22	--	%	ISO 4589-2

Processing Information

Injection

Drying Temperature	Dry	Unit
Drying Time	176 °F	
Rear Temperature	2.0 hr	
Middle Temperature	446 to 536 °F	
	446 to 536 °F	

上海松翰塑化科技有限公司
TEKNOR APEX 特諾爾愛派斯一级经销商
teknorapex.shsht.com 电话: 021-58958519

Revision Date: 3/17/2014

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

Chemlon® MDF4L

Teknor Apex Company (Chem Polymer) - Polyamide 6

Injection	Dry Unit
Front Temperature	446 to 536 °F
Processing (Melt) Temp	464 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).

Teknor Apex Company Corporate Headquarters

In U.S. for *Vinyls, TPEs, Colorants, Engineered Thermoplastics (Chem Polymer)*
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.
Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

Teknor Apex U.K. Ltd.

Tat Bank Road
Oldbury, West Midlands B69 4NH England
Phone: (44) 121-665-2100
Fax: (44) 121-544-5530
etpsales@teknorapex.co.uk

info@teknorapex.com



Revision Date: 3/17/2014

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.