

# Chemlon® MDF50

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

MDF50 is a 50% glass fibre reinforced nylon 6 that offers excellent mechanical performance coupled with good surface finish.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Features		Excellent appearance		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.56	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>1</sup>	0.40 - 0.90	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14400	10400	MPa	ISO 527-2
Tensile Stress	220	160	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Flexural Modulus	12500	9000	MPa	ISO 178
Flexural Stress	320	230	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	18	20	kJ/m <sup>2</sup>	ISO 180/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+17	1.0E+14	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	11	8.0	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0		hr	
Rear Temperature	250 - 295		°C	
Middle Temperature	250 - 295		°C	
Front Temperature	250 - 295		°C	
Processing (Melt) Temp	275 - 300		°C	
Mold Temperature	80.0 - 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).

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

