

Chemlon® MDSF1

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

MDSF1 is a 40% mixed glass fibre and glass sphere filled injection moulding grade of nylon 6.

General Information				
Filler / Reinforcement		Glass Beads \Glass Fiber, 40% Filler by Weight		
Features		Rigidity, high		
		Low shrinkage		
		Excellent appearance		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	0.80 - 1.5	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7200	5000	MPa	ISO 527-2
Tensile Stress	120	90.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	3.0	%	ISO 527-2
Flexural Modulus	7100	3900	MPa	ISO 178
Flexural Stress	185	120	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	9.5	18	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	35 kJ/m ²	No Break		ISO 179/1eU
Notched Izod Impact	6.5	--	kJ/m ²	ISO 180/A
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	220	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+17	1.0E+14	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	14	9.0	kV/mm	IEC 60243-1
Comparative Tracking Index	500	--	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm, Teknor Apex test result)	HB	--		UL 94
Oxygen Index	24	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0		hr	
Rear Temperature	260 - 290		°C	
Middle Temperature	260 - 290		°C	
Front Temperature	260 - 290		°C	
Processing (Melt) Temp	250 - 300		°C	
Mold Temperature	70.0 - 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



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