Chemlon® MDS2

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

MDS2 is a 50% glass sphere filled nylon 6 that offers excellent rigidity coupled with minimal distortion.

General Information				
Filler / Reinforcement	Glass beads, 50% filler by weight			
Features	Rigidity, high			
Forms	Particle			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.50	--	g/cm³	ISO 1183
Molding Shrinkage [1]	1.0 - 1.5	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.80	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	5200	--	MPa	ISO 527-2
Tensile Stress (Break)	65.0	38.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	3.0	%	ISO 527-2
Flexural Modulus	5000	2000	MPa	ISO 178
Flexural Stress [2]	120	50.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	6.0	20	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	35	--	kJ/m²	ISO 179
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	130	--	°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+15	1.0E+12	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	10	9.0	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	525	500	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**

Oxygen Index	22	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0 - 100		°C	
Drying Time	2.0		hr	
Rear Temperature	230 - 280		°C	
Middle Temperature	230 - 280		°C	
Front Temperature	230 - 280		°C	
Processing (Melt) Temp	< 300		°C	
Mold Temperature	60.0 - 80.0		°C	
Injection Rate	Fast			
Screw Speed	50 - 200		rpm	

Injection instructions

Back pressure: LowInjection pressure: HighThe material is supplied dry and ready to mould in sealed, moisture proof sacks. No drying is necessary unless the materials 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. Should drying become necessary two hours at 80 - 100°C in a vacuum oven is recommended. Alternatively material maybe dried for up to six hours in a hopper drier or an air circulating oven at a temperature not exceeding 80°C.

NOTE

1.	Mould shrinkage is significantly influenced by many factors including wall thickness, gating, component shape and moulding conditions.The range values stated were 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).
2.	Break

Recommended distributors for this material

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