

Chemlon® MDS4

Teknor Apex Company (Che	General Info			
Product Description	00.10141 11110			
MDS4 is a 25% glass sphere filled nylor	n 6 that offers increased rigidity couple	ed with low distortion.		
General	<u> </u>			
Material Status	Commercial: Active			
Availability	• Europe			
Filler / Reinforcement	Glass Bead, 25% Filler by Wei	ight		
Features	Good Surface Finish	Low Shrinkage		
Processing Method	Injection Molding	<u> </u>		
	ASTM & ISO P	roperties 1		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32		g/cm³	ISO 1183
Molding Shrinkage ²	1.1 to 1.8		%	Internal Method
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.3		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	522000		psi	ISO 527-2
Tensile Stress	10200	5800	psi	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Flexural Modulus	508000	174000	psi	ISO 178
Flexural Stress	15200	5800	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.3	16	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
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	230		°F	
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
Electric Strength (0.118 in)	250	230	V/mil	IEC 60243-1
Comparative Tracking Index	525		V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	23		%	ISO 4589-2
	Processing In			
Injection	Dry Unit			
Drying Temperature		176 °F		
Drying Time		2.0 hr		
Rear Temperature		473 to 536 °F		
Middle Temperature		473 to 536 °F		
Front Temperature		473 to 536 °F		
Processing (Melt) Temp		473 to 536 °F		
Mold Temperature		140 to 176 °F		

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Chemion® MDS4

Teknor Apex Company (Chem Polymer) - Polyamide 6

Injection	Dry Unit
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).