Chemlon® MDM54

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

MDM54 is an injection molding grade nylon 6 approved by UL. It contains minerals, does not contain halogen and phosphorus, and has a flame retardant grade of V-2. It is mainly used in electrical equipment.

General Information						
Filler / Reinforcement		Mineral filler				
Features		Good coloring				
		Phosphorus content, low (to none)				
		Halogen-free				
		Flame retardancy				
Uses		Electrical/Electronic Applications				
Forms		Particle				
Processing Method		Injection molding				
Physical	Dry	Conditioned	Unit	Test Method		
Density	1.29		g/cm³	ISO 1183		
Molding Shrinkage ¹	0.90 - 1.6		%	Internal method		
Water Absorption						
(Equilibrium, 23°C, 50% RH)	1.2		%	ISO 62		
Mechanical	Dry	Conditioned	Unit	Test Method		
Tensile Modulus	4200	1100	MPa	ISO 527-2		
Tensile Stress				ISO 527-2		
Yield		40.0	МРа	ISO 527-2		
Fracture	77.0		MPa	ISO 527-2		
Tensile Strain (Break)	5.0	7.0	%	ISO 527-2		
Flexural Modulus	4000	2200	MPa	ISO 178		
Flexural Stress				ISO 178		
2		38.0	МРа	ISO 178		
3	110		МРа	ISO 178		
Impact	Dry	Conditioned	Unit	Test Method		
Charpy Notched Impact			2			
Strength	5.5	23	kJ/m²	ISO 179		
Notched Izod Impact	6.0		kJ/m²	ISO 180		
Thermal	Dry	Conditioned	Unit	Test Method		
Heat Deflection Temperature (1.8 MPa,						
Unannealed)	78.0	73.0	°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+15	1.0E+11	ohms·cm	IEC 60093
Dielectric Strength (3.00				
mm)	11	9.0	kV/mm	IEC 60243-1
Relative Permittivity (1	2.00	5.00		JEC 60050
MHz)	3.90	5.90		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.080		IEC 60250
Comparative Tracking Index	> 600	> 600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm)	V-2			UL 94
Glow Wire Flammability				
Index	960		°C	IEC 60695-2-12
Oxygen Index	24		%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0		hr	
Rear Temperature	240 - 260		°C	
Middle Temperature	240 - 260		°C	
Front Temperature	240 - 260		°C	
Processing (Melt) Temp	< 300		°C	
Mold Temperature	60.0 - 80.0		°C	
Injection Rate	Fast			
Screw Speed	50 - 200		rpm	
Injection instructions				
背压:低注射压力:高如果材料	在空气中暴露的时间不超过	过3小时,则无需干燥.		
NOTE				
	Mould shrinkage is			
	significantly influenced	-		
	-			
		ding		
	many factors including thickness, gating, mould shape and processing conditions. The range			

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 1.5 mm to 4 mm 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).

Yield

1.

2.

3.

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