

Chemlon® 140 M

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 140 M is a Polyamide 66 (Nylon 66) material filled with 40% mineral. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Chemlon® 140 M: Flame Rated.

Typical application of Chemlon® 140 M: Automotive

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Appearance	White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.70 to 1.2	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	89.6	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	1.8	%	
Break	2.5	%	
Flexural Modulus	6550	MPa	ASTM D790
Flexural Strength	134	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	202	°C	ASTM D648
Melting Temperature	257	°C	DSC
CLTE - Flow	4.6E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength (3.00 mm)	15	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Oxygen Index	27	%	ASTM D2863
FMVSS Flammability	PASSES		FMVSS 302
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	

Suggested Max Regrind	25	%
Rear Temperature	241 to 254	°C
Middle Temperature	257 to 274	°C
Front Temperature	263 to 282	°C
Nozzle Temperature	263 to 279	°C
Processing (Melt) Temp	263 to 279	°C

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Recommended distributors for this material

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