

Chemlon® 125-15 MGH

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 125-15 MGH is a Polyamide 66 (Nylon 66) material filled with 15% glass fiber and 25% mineral. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 125-15 MGH are:

Flame Rated

Heat Stabilizer

Typical application of Chemlon® 125-15 MGH: Automotive

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
	Mineral,25% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.15 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	128	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	2.5	%	
Break	2.5	%	
Flexural Modulus	7930	MPa	ASTM D790
Flexural Strength	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	241	°C	ASTM D648
Melting Temperature	257	°C	DSC
RTI Elec (0.749 mm)	65.0	°C	UL 746
RTI Imp (0.749 mm)	65.0	°C	UL 746
RTI Str (0.749 mm)	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength (3.00 mm)	14	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	550	V	UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.749 mm)	HB		UL 94
Oxygen Index	24	%	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 257	°C	
Middle Temperature	263 to 279	°C	
Front Temperature	268 to 285	°C	
Nozzle Temperature	268 to 282	°C	
Processing (Melt) Temp	263 to 285	°C	

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