

Chemlon® 125 GVH

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

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

Important attributes of Chemlon® 125 GVH are:

Flame Rated

Flame Retardant

Typical application of Chemlon® 125 GVH: Automotive

General Information			
UL YellowCard	E90654-100046571	E142591-575488	
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Automotive Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	131	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	2.0	%	
Break	2.5	%	
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	171	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	235	°C	ASTM D648
Melting Temperature	257	°C	
CLTE - Flow	5.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	16	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	350	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	V-0		UL 94

Oxygen Index	32	%	ASTM D2863
FMVSS Flammability	PASSES		FMVSS 302
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	15	%	
Rear Temperature	252 to 268	°C	
Middle Temperature	263 to 285	°C	
Front Temperature	268 to 291	°C	
Nozzle Temperature	268 to 285	°C	
Processing (Melt) Temp	263 to 285	°C	

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