



Chemlon® 125 GVH

Teknor Apex Company - Polyamide 66

General Information

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant
Uses	• Automotive Applications
Automotive Specifications	• GM GMP.PA66.058 ¹
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Molding Shrinkage	0.10 to 0.30	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	18900	psi	ISO 527
Tensile Strain (Yield)	2.0	%	ISO 527
Tensile Strain (Break)	2.5	%	ISO 527
Flexural Modulus	999000	psi	ISO 178/A
Flexural Stress	24700	psi	ISO 178/A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	> 2.6	ft-lb/in ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	455	°F	ISO 75-2/A
Melting Temperature	495	°F	
CLTE - Flow	3.1E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (0.118 in)	410	V/mil	ASTM D149
Comparative Tracking Index (CTI)	350	V	UL 746A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	V-0		UL 94
Oxygen Index	32	%	ASTM D2863
FMVSS Flammability	PASSES		FMVSS 302

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Injection	Nominal Value	Unit
Drying Temperature	175	°F
Suggested Max Moisture	0.20	%
Suggested Max Regrind	15	%
Rear Temperature	485 to 515	°F
Middle Temperature	505 to 545	°F
Front Temperature	515 to 555	°F
Nozzle Temperature	515 to 545	°F
Processing (Melt) Temp	505 to 545	°F

Notes

- ¹ Automotive site approvals apply for US manufactured compound only
- ² Typical properties: these are not to be construed as specifications.