



Chemlon® 125-15 MGH

Teknor Apex Company - Polyamide 66

General Information

Product Description

Chemlon® 125-15 MGH is a 25% mineral and 15% glass fiber reinforced, heat stabilized polyamide 66 (PA 66) designed for injection molding. This material exhibits excellent stiffness and strength, a good surface appearance, and is available globally.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Heat Stabilizer		
Features	• Good Dimensional Stability • Good Processability	• Good Surface Finish • Good Tensile Strength	• Good Thermal Stability
RoHS Compliance	• Contact Manufacturer		
Automotive Specifications	• STELLANTIS MS-DB-41 CPN2554 Color: BK001 Black ¹		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density	1.50	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.20	--	%	
Water Absorption (24 hr, 73°F)	0.70	--	%	ISO 62
Water Absorption				ISO 62
Saturation, 73°F	1.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.86E+6	1.17E+6	psi	ISO 527-1
Tensile Stress	20300	13100	psi	ISO 527-2
Tensile Strain (Break)	2.4	6.3	%	ISO 527-2
Flexural Modulus	1.38E+6	842000	psi	ISO 178
Flexural Stress	29000	18100	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F	1.9	2.9	ft·lb/in ²	
Charpy Unnotched Impact Strength	23	29	ft·lb/in ²	ISO 179
Notched Izod Impact Strength	1.9	2.9	ft·lb/in ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi, Unannealed	482	--	°F	
Deflection Temperature Under Load				ISO 75-2/A
264 psi, Unannealed	446	--	°F	
Melting Temperature	495	--	°F	DSC
RTI Elec (0.030 in)	149	--	°F	UL 746B
RTI Imp (0.030 in)	149	--	°F	UL 746B
RTI Str (0.030 in)	149	--	°F	UL 746B

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Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14	--	ohms·cm	ASTM D257
Dielectric Strength (0.118 in)	360	--	V/mil	ASTM D149
Comparative Tracking Index (CTI)	550	--	V	UL 746A
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.030 in)	HB	--		UL 94
Oxygen Index	24	--	%	ISO 4589-2
FMVSS Flammability	PASSES	--		FMVSS 302

Processing Information		
Injection	Dry	Unit
Drying Temperature	176	°F
Suggested Max Moisture	0.12	%
Processing (Melt) Temp	509 to 559	°F
Mold Temperature	171 to 190	°F

Injection Notes
Maximum peak injection pressure should not exceed 80% of the machine's maximum pressure capability. Start with a holding pressure that is half the peak

Notes

¹ Automotive site approvals apply for US manufactured compound only

² Typical properties: these are not to be construed as specifications.