

Chemlon® 125-15 MGH

Teknor Apex Company - Polyamide 66

Saturday, September 14, 2024

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	• CHRYSLER 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 - Flow	0.20 to 0.40	--	%	ISO 294-4
Water Absorption (24 hr, 23°C)	1.2	--	%	ISO 62
Water Absorption Saturation, 23°C	5.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12900	8060	MPa	ISO 527-1
Tensile Stress	141	90.7	MPa	ISO 527-2
Tensile Strain (Break)	2.4	6.3	%	ISO 527-2
Flexural Modulus	9500	5800	MPa	ISO 178
Flexural Stress	200	125	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength 23°C	5.5	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	49	61	kJ/m ²	ISO 179
Notched Izod Impact Strength	4.3	7.1	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	253	--	°C	ISO 75-2/B
Deflection Temperature Under Load 1.8 MPa, Unannealed	230	--	°C	ISO 75-2/A
Melting Temperature	257	--	°C	DSC
RTI Elec (0.75 mm)	65.0	--	°C	UL 746B
RTI Imp (0.75 mm)	65.0	--	°C	UL 746B
RTI Str (0.75 mm)	65.0	--	°C	UL 746B

Revision Date: 2/13/2023

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Electrical	Dry	Conditioned	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 746A
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm)	HB	--		UL 94
Oxygen Index	24	--	%	ISO 4589-2
FMVSS Flammability	PASSES	--		FMVSS 302

Legal Statement

Dry

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Processing Information

Injection	Dry	Unit
Drying Temperature	80	°C
Suggested Max Moisture	0.12	%
Processing (Melt) Temp	265 to 293	°C
Mold Temperature	77 to 88	°C

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.

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