

# Chemlon® 125-15 MGH

Teknor Apex Company (Chem Polymer) - Polyamide 66

Friday, June 30, 2017

## General Information

### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight	• Mineral, 25% Filler by Weight	
Additive	• Heat Stabilizer		
Features	• Heat Stabilized		
Automotive Specifications	• CHRYSLER MS-DB-41 CPN2554 Color: BK001 Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50		ASTM D792
Molding Shrinkage - Flow	1.5E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	18900	psi	ASTM D638
Tensile Elongation (Yield)	2.5	%	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	1.38E+6	psi	ASTM D790
Flexural Strength	27500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.4	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	446	°F	ASTM D648
Melting Temperature	495	°F	DSC
RTI Elec (0.030 in)	149	°F	UL 746
RTI Imp (0.030 in)	149	°F	UL 746
RTI Str (0.030 in)	149	°F	UL 746
Electrical	Nominal Value	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 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.030 in)	HB		UL 94
Oxygen Index	24	%	ASTM D2863
FMVSS Flammability	PASSES		FMVSS 302

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Suggested Max Moisture	0.20	%
Suggested Max Regrid	25	%
Rear Temperature	465 to 495	°F
Middle Temperature	505 to 535	°F

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Revision Date: 3/9/2017

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Injection	Nominal Value	Unit
Front Temperature	515 to 545	°F
Nozzle Temperature	515 to 540	°F
Processing (Melt) Temp	505 to 545	°F

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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