

Chemlon® 109 H

Teknor Apex Company (Chem Polymer) - Polyamide 66

Friday, August 18, 2017

General Information

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Heat Stabilizer		
Features	• Good Impact Resistance • Good Processability	• Good Toughness • Heat Stabilized	• High Strength • Low Temperature Impact Resistance
Automotive Specifications	• FORD ESA-M4D379-B • FORD WSB-M4D666-A	• FORD WSK-M4D666-A • GM GMP.PA66.021	• GM GMP.PA66.062 Color: Black • GM GMP.PA66.062 Color: Natural
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	51.7	MPa	ASTM D638
Tensile Elongation (Yield)	4.5	%	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	240	J/m	
23°C	960	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	62.8	°C	
Melting Temperature	257	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	10	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	HB		UL 94
Oxygen Index	21	%	ASTM D2863

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	79	°C
Suggested Max Moisture	0.20	%
Suggested Max Regrind	25	%
Rear Temperature	241 to 257	°C
Middle Temperature	257 to 271	°C
Front Temperature	263 to 279	°C

Revision Date: 12/11/2008

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Injection	Nominal Value	Unit
Nozzle Temperature	263 to 282	°C
Processing (Melt) Temp	263 to 282	°C

Notes

¹ Typical properties: these are not to be construed as specifications.

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