

Chemlon® 109

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 109 is a Polyamide 66 (Nylon 66) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 109 are:

Flame Rated

Impact Resistant

Typical application of Chemlon® 109: Automotive

General Information			
UL YellowCard	E90654-252582		
Features	High Impact Resistance		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.9 to 2.5	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	51.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.5	%	
Break	50	%	
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 (1.8 MPa, Unannealed)	62.8	°C	ASTM D648
Melting Temperature	257	°C	DSC
RTI Elec (0.749 mm)	65.0	°C	UL 746
RTI Imp (0.749 mm)	65.0	°C	UL 746
RTI Str (0.749 mm)	65.0	°C	UL 746
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 (0.749 mm)	HB		UL 94

Oxygen Index	21	%	ASTM D2863
FMVSS Flammability	PASSES		FMVSS 302
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°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	
Nozzle Temperature	263 to 282	°C	
Processing (Melt) Temp	263 to 282	°C	

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