

Chemlon® 109 U

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 109 U 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 U are:

Flame Rated

UV Stabilized

Typical application of Chemlon® 109 U: Automotive

General Information			
Additive	UV Stabilizer		
Uses	Automotive Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Molding Shrinkage	1.5 to 2.0	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	50.0	MPa	ISO 527-2
Tensile Strain (Break)	45	%	ISO 527-2
Flexural Modulus	1700	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-40°C	20	kJ/m ²	
23°C	95	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	52.0	°C	ISO 75-2/A
Melting Temperature	261	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ISO 1325
Dielectric Strength (3.00 mm)	17	kV/mm	ASTM D149
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.810 mm)	HB		UL 94
FMVSS Flammability	PASSES		FMVSS 302
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	

Rear Temperature	265 to 285	°C
Middle Temperature	265 to 290	°C
Front Temperature	265 to 295	°C
Nozzle Temperature	265 to 285	°C
Processing (Melt) Temp	270 to 295	°C

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Recommended distributors for this material

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