

Chemlon® 100

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 100 is a Polyamide 66 (Nylon 66) material. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Chemlon® 100: Flame Rated.

Typical application of Chemlon® 100: Automotive

General Information			
UL YellowCard	E90654-252578		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (275°C/0.325 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 2.2	%	ASTM D955
Water Absorption (24 hr)	1.2	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	86.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.0	%	
Break	50	%	
Flexural Modulus	2860	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	220	°C	
1.8 MPa, Unannealed	90.6	°C	
Melting Temperature	257	°C	DSC
CLTE - Flow	7.1E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
0.810 mm	115	°C	
1.50 mm	115	°C	
3.00 mm	115	°C	
RTI Imp			UL 746
0.810 mm	75.0	°C	
1.50 mm	75.0	°C	
3.00 mm	85.0	°C	

RTI Str			UL 746
0.810 mm	95.0	°C	
1.50 mm	95.0	°C	
3.00 mm	95.0	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	18	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.810 mm)	V-2		UL 94
Oxygen Index	27	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	241 to 254	°C	
Middle Temperature	257 to 274	°C	
Front Temperature	263 to 282	°C	
Nozzle Temperature	263 to 279	°C	
Processing (Melt) Temp	263 to 279	°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

