Chemlon® 100 H

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 100 H is a Polyamide 66 (Nylon 66) material. It is available in Asia Pacific, Europe, or North America for injection molding.
Important attributes of Chemlon® 100 H are:
Flame Rated
Good Processability
Good Toughness
Heat Stabilizer
High Strength
Typical applications include:
Automotive
Appliances
Electrical/Electronic Applications
Wire & Cable

General Information	
UL YellowCard	E90654-252579
Additive	Heat Stabilizer Lubricant
Features	General Purpose Good Processability Good Toughness Heat Stabilized High Strength Lubricated
Uses	Appliances Automotive Applications Electrical/Electronic Applications
Agency Ratings	UL 94
Appearance	Black Natural Color
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	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	
CLTE - Flow	7.1E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
0.810 mm	130	°C	
1.50 mm	130	°C	
3.00 mm	130	°C	
RTI Imp			UL 746
0.810 mm	95.0	°C	
1.50 mm	105	°C	
3.00 mm	110	°C	
RTI Str			UL 746
0.810 mm	110	°C	
1.50 mm	110	°C	
3.00 mm	110	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	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 271	°C	
Front Temperature	263 to 282	°C	

Nozzle Temperature	263 to 279	°C
Processing (Melt) Temp	263 to 279	°C
Mold Temperature	21.1 to 93.3	°C
Injection Pressure	34.5 to 138	MPa
Screw Speed	60 to 120	rpm

Recommended distributors for this material

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

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