

Chemlon® 102

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 102 is a Polyamide 66 (Nylon 66) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 102 are:

Flame Rated

Nucleated

General Information			
Additive	Nucleating Agent		
Features	Nucleated		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.0 to 1.6	%	ASTM D955
Water Absorption (24 hr)	1.3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	89.6	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.5	%	
Break	7.0	%	
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	117	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	90.6	°C	ASTM D648
Melting Temperature	257	°C	DSC
CLTE - Flow	7.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms · cm	ASTM D257
Dielectric Strength (3.00 mm)	17	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.749 mm)	V-2		UL 94
Oxygen Index	27	%	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 254	°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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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

