

Chemlon® 182

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 182 is a Polyamide 66 (Nylon 66) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 182 are:

Flame Rated

Flame Retardant

General Information			
UL YellowCard	E90654-252585		
Additive	Flame Retardant		
Features	Flame Retardant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.90 to 1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	72.4	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.0	%	
Break	7.0	%	
Flexural Modulus	3210	MPa	ASTM D790
Flexural Strength	103	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			ASTM D648
0.45 MPa, Unannealed	224	°C	
1.8 MPa, Unannealed	110	°C	
Melting Temperature	257	°C	DSC
RTI Elec			UL 746
0.810 mm	120	°C	
1.50 mm	120	°C	
3.00 mm	120	°C	
RTI Imp			UL 746
0.810 mm	95.0	°C	
1.50 mm	105	°C	

3.00 mm	105	°C	
RTI Str			UL 746
0.810 mm	120	°C	
1.50 mm	120	°C	
3.00 mm	120	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	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 (0.569 mm)	V-0		UL 94
Oxygen Index	33	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Rear Temperature	246 to 257	°C	
Middle Temperature	263 to 268	°C	
Front Temperature	263 to 274	°C	
Nozzle Temperature	268 to 279	°C	
Processing (Melt) Temp	263 to 277	°C	

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Recommended distributors for this material

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