

Chemlon® 182

Polyamide 66

Teknor Apex Company (Chem Polymer)

Technical Data

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E90654-252585
Search for UL Yellow Card	• Teknor Apex Company (Chem Polymer) • Chemlon®
Availability	• Asia Pacific • Europe • North America
Additive	• Flame Retardant
Features	• Flame Retardant
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.19 g/cm³	ASTM D792
Molding Shrinkage - Flow	0.90 to 1.4 %	ASTM D955

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

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	120	ASTM D785

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 ohm·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

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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

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.