

## Teknor Apex Chemlon<sup>®</sup> 104 Nylon 66, Impact Grade

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade , Nylon 66, Unreinforced, Flame Retardant

### Material Notes:

Notes: Medium-Impact; General Purpose; Impact modified to provide excellent toughness Processing Method: Injection Molding Forms:

Pellets Automotive Specifications: Chrysler MS-DB41 CPN3992 Color: WL5 Information Provided by Teknor Apex

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Teknor-Apex-Chemlon-104-Nylon-66-Impact-Grade.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-104-Nylon-66-Impact-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage	0.012 - 0.020 cm/cm	0.012 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	72.4 MPa	10500 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	1.39 J/cm	2.60 ft-lb/in	ASTM D256
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	2.40 J/cm	4.50 ft-lb/in	ASTM D256
	@Temperature 22.8 Â°C	@Temperature 73.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	70.2 Âµm/m-Â°C	39.0 Âµin/in-Â°F	ASTM D696
Melting Point	257 Â°C	495 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	213 Â°C	415 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.4 Â°C	175 Â°F	Unannealed; ASTM D648
UL RTI, Electrical	65.0 Â°C	149 Â°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	

Thermal Properties	65.0 Å°C Metric	149 Å°F English	Comments
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	65.0 Å°C	149 Å°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 Å°C	149 Å°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	65.0 Å°C	149 Å°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	65.0 Å°C	149 Å°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	65.0 Å°C	149 Å°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	65.0 Å°C	149 Å°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	65.0 Å°C	149 Å°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	HB	HB	
	@Thickness 0.810 mm	@Thickness 0.0319 in	
Oxygen Index	22 %	22 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	16.9 kV/mm	430 kV/in	ASTM D149
	@Thickness 3.00 mm	@Thickness 0.118 in	
Comparative Tracking Index	600 V	600 V	UL 746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	241 - 254 Å°C	465 - 490 Å°F	
Middle Barrel Temperature	257 - 274 Å°C	495 - 525 Å°F	
Front Barrel Temperature	263 - 282 Å°C	505 - 540 Å°F	
Nozzle Temperature	263 - 279 Å°C	505 - 535 Å°F	

Melt Temperature Processing Properties	263 - 279 Â°C Metric	505 - 535 Â°F English	Processing Temperature Comments
Drying Temperature	79.4 Â°C	175 Â°F	

Descriptive Properties	Value	Comments
Suggested Moisture, max	0.2	
Suggested Re grind, max	25	

## Contact Songhan Plastic Technology Co.,Ltd.

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