

Teknor Apex Chemlon® 223 Nylon 6, Unreinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Nucleated , Nylon 6, Unreinforced, Flame Retardant

Material Notes:

Features: Nucleated for fast cycling Processing Method: Injection Molding Forms: Pellets Additive: Nucleating Agent Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-223-Nylon-6-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 - 0.015 cm/cm	0.010 - 0.015 in/in	ASTM D955
Melt Flow	8.00 g/10 min @Load 1.00 kg, Temperature 235 Â°C	8.00 g/10 min @Load 2.20 lb, Temperature 455 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	107 MPa	15500 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 Â°C	1.00 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	61.2 Âµm/m-Â°C	34.0 Âµin/in-Â°F	ASTM D696
Melting Point	216 Â°C	420 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	191 Â°C	375 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.3 Â°C	200 Â°F	Unannealed; ASTM D648
UL RTI, Electrical	125 Â°C	257 Â°F	UL 746

Thermal Properties	@Thickness 0.810 mm Metric	@Thickness 0.0319 in English	Comments
	125 Å°C	257 Å°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	125 Å°C	257 Å°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	75.0 Å°C	167 Å°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	75.0 Å°C	167 Å°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	75.0 Å°C	167 Å°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	110 Å°C	230 Å°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	120 Å°C	248 Å°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	125 Å°C	257 Å°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-2	V-2	
	@Thickness 0.810 mm	@Thickness 0.0319 in	
Oxygen Index	25 %	25 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	14.2 kV/mm	360 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	218 - 235 Å°C	425 - 455 Å°F	
Middle Barrel Temperature	241 - 260 Å°C	465 - 500 Å°F	
Front Barrel Temperature	241 - 260 Å°C	465 - 500 Å°F	

Nozzle Temperature Processing Properties	241 - 266 Â°C Metric	465 - 510 Â°F English	Comments
Melt Temperature	241 - 266 Â°C	465 - 510 Â°F	Processing Temperature
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.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China