

## Teknor Apex APEX<sup>®</sup> 1002 Polyvinyl Chloride, Flexible

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Flexible Grade , PVC, Wire and Cable Grade

### Material Notes:

Notes: 60<sup>°</sup>C General Purpose; RoHS Compliant Uses: Connectors; Grommets; Plugs; Strain Reliefs  
 Forms: Pellets Processing Method: Injection Molding Agency Ratings: UL QMFZ2 .E54709 Wire Types: Molded Components Additional Information: Temperature Rating: 60<sup>°</sup>C  
 Recognized Component, CSA C22.2 No. 0.6, CSA Flammability Classification: 0.6HB at 0.88mm Information Provided by Teknor Apex

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Teknor-Apex-APEX-1002-Polyvinyl-Chloride-Flexible.php](http://www.lookpolymers.com/polymer_Teknor-Apex-APEX-1002-Polyvinyl-Chloride-Flexible.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage	0.015 - 0.018 cm/cm	0.015 - 0.018 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	15 seconds; ASTM D2240
Tensile Strength at Break	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	430 %	430 %	ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-41.0 <sup>°</sup> C	-41.8 <sup>°</sup> F	ASTM D746
UL RTI, Electrical	90.0 <sup>°</sup> C	194 <sup>°</sup> F	UL 746
	@Thickness 0.889 mm	@Thickness 0.0350 in	
	90.0 <sup>°</sup> C	194 <sup>°</sup> F	
UL RTI, Mechanical without Impact	80.0 <sup>°</sup> C	176 <sup>°</sup> F	UL 746
	@Thickness 0.889 mm	@Thickness 0.0350 in	
	90.0 <sup>°</sup> C	194 <sup>°</sup> F	
UL RTI, Mechanical without Impact	90.0 <sup>°</sup> C	194 <sup>°</sup> F	UL 746
	@Thickness 1.40 mm	@Thickness 0.0551 in	
	90.0 <sup>°</sup> C	194 <sup>°</sup> F	
UL RTI, Mechanical without Impact	90.0 <sup>°</sup> C	194 <sup>°</sup> F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
	90.0 <sup>°</sup> C	194 <sup>°</sup> F	
HB		HB	

Flammability, UL 94			
Thermal Properties	Metric	English	Comments
	@Thickness 0.889 mm	@Thickness 0.0350 in	
	HB	HB	
	@Thickness 1.40 mm	@Thickness 0.0551 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	23 %	23 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	174 Â°C	345 Â°F	Processing Temperature

Descriptive Properties	Value	Comments
Appearance	Opaque	

## Contact Songhan Plastic Technology Co.,Ltd.

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