

# APEX® 77-W002-A

Teknor Apex Company - Flexible Polyvinyl Chloride

Friday, June 30, 2017

## General Information

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Fungus Resistant		
	• Low Temperature Flexibility		
Uses	• Military Applications		
	• Tubing		
Agency Ratings	• MIL I-631-D, Grade A, Class I, Form U, Type F		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (100% Strain)	1390	psi	ASTM D638
Tensile Strength (Break)	2400	psi	ASTM D638
Tensile Elongation (Break)	420	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	81		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-47.2	°F	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	24	%	ASTM D2863

### Additional Information

Temperature Rating: 80 °C  
 Insulation Resistance, Mohm/1000 ft: .1e12  
 Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 113°C: 73 %  
 Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 113°C: 108 %

## Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	355	°F

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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