



APEX® 77-W002-B

Teknor Apex Company - Flexible Polyvinyl Chloride

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Fungus Resistant	• Low Temperature Flexibility	
Uses	• Military Applications	• Tubing	
Agency Ratings	• MIL I-631-D Grade B, Class I, Category I, Form U, Type F • MIL I-7444-D Grade B, Class I, Category I		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	2500	psi	ASTM D638
Tensile Elongation (Break)	430	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	80		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-58.0	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Dielectric Constant (1 kHz)	5.50		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	24	%	ASTM D2863

Additional Information

Temperature Rating: 60 °C
Ultimate Elongation Retained, UL 1581, Oven Aged, 7 days, 100°C: 87 %
Tensile Strength Retained, UL 1581, Oven Aged, 7 days, 100°C: 108 %

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	355	°F

Notes

¹ Typical properties: these are not to be construed as specifications.