



APEX® 80873

Teknor Apex Company - Semi-Rigid Polyvinyl Chloride

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Latin America • North America	
Features	• Electrically Insulating • Flame Retardant	• Oil Resistant • Semi Rigid	
Uses	• Appliance Wire Insulation • Building Wire Insulation	• Flame Retardant Insulation • Industrial Cable Insulation	• Insulation • Wet Rated Insulation
Wire Types	• AWM • TF • TFF • TFFN	• THHN • THHW • THW • THWN	• TW • VW-1
Agency Ratings	• UL 1277 • UL 13 • UL 1685 • UL 2250 • UL 758	• UL 83 • UL I Oil Rating • UL II Oil Rating • UL QMTT2 • UL Type THHN	• UL Type THHW • UL Type THW • UL Type THWN • UL Type TW
Regulatory Statement	• Due to the frequent updates to regulations, specifically, California Proposition 65, EU REACH SVHCs, and RoHS, please contact Teknor Apex for the most up to date compliance statement, or refer to section 15 of the product SDS.		
Appearance	• Colors Available	• Opaque	
Forms	• Pellets		
Processing Method	• Wire & Cable Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	3550	psi	ASTM D638
Tensile Elongation (Break)	320	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore C, 10 sec)	83		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	221	°F	ASTM D794
Brittleness Temperature	8.60	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+14	ohms·cm	ASTM D257
Dielectric Constant			ASTM D150
1 kHz	3.59		
1 MHz	2.89		
Dissipation Factor			ASTM D150
1 kHz	0.061		
1 MHz	0.035		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	27	%	ASTM D2863

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Additional Information

Oil Rating:

- 4 Days @ 100C UL83
- 60 Days @ 75C UL83

Data Sheet Applies to Color Listed Below:

Natural (0117851)

3/20-lc

Notes

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