

APEX® 80853-C

Teknor Apex Company - Flexible Polyvinyl Chloride

Friday, June 30, 2017

General Information

Product Description

105°C, Non-Lead Stabilized, Insulation

UL Recognized Component Under QMTT2, File # E73402, PVC Insulation Intended for Use in 90°C Wet Locations

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant • Oil Resistant		
Uses	• Insulation	• Wet Rated Insulation	• Wire & Cable Applications
Wire Types	• MTW • THHN • THW	• THW-2 • THWN • THWN-2	• TW
Agency Ratings	• UL I Oil Rating	• UL QMTT2	
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	3100	psi	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore C, 10 sec)	71		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	221	°F	ASTM D794
Brittleness Temperature	-2.20	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.4E+15	ohms·cm	ASTM D257
Dielectric Strength	880	V/mil	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	4.36		
1 MHz	2.99		
Dissipation Factor			ASTM D150
1 kHz	0.095		
1 MHz	0.058		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	27	%	ASTM D2863

Additional Information

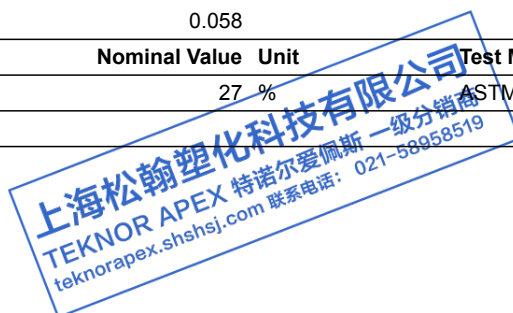
Volume Resistivity, ASTM D257, 23°C: 2.7 x10¹⁵ ohm-cm

Volume Resistivity, ASTM D257, 50°C: 0.339 x10¹⁵ ohm-cm

Oil Rating: 4 days @ 100 C

Oil Rating: 60 days @ 75 C

720 Hour Sunlight Resistant



Revision Date: 3/16/2015

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Notes

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

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*In U.S. for Vinyls, TPEs, Colorants,
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