



APEX® 80853-C

Teknor Apex Company - Flexible 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 • Plasticized	• Sunlight Resistant (720 hours)
Uses	• Appliance Wire Insulation • Building Wire Insulation • Electronic Insulation	• Flame Retardant Insulation • Industrial Cable Insulation • Insulation	• Wet Rated Insulation
Wire Types	• AWM • CL2 • CL3 • FPL • ITC • NM	• NMB • NMC • PLTC • TC • THHN • THHW	• THW • THW-2 • THWN • THWN-2 • TW • VW-1
Agency Ratings	• UL 1277 • UL 13 • UL 1424 • UL 1569 • UL 1685 • UL 2250 • UL 719	• UL 758 • UL 83 • UL CL2 • UL I Oil Rating • UL II Oil Rating • UL QMTT2 • UL Type T	• UL Type THHN • UL Type THHW • UL Type THW • UL Type THWN • UL Type THWN-2 • UL Type TW • UL VW-1
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	1.31		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			ASTM D2240
Shore C, 10 sec, Hand Held	71		
Shore D, 10 sec, Operating Stand	44		
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	221	°F	ASTM D794
Brittleness Temperature	-2.20	°F	ASTM D746

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Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (122°F)	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

- Oil Rating:
- 4 Days @ 100C UL83
 - 60 Days @ 75C UL83

Data Sheet Applies to Colors Listed Below:

Natural (0116200)

Black 1 (0115986)

Green 1377 (0118165)

12/19-lc

Notes

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