

# APEX® 80853-C

Flexible Polyvinyl Chloride

Teknor Apex Company

## Message:

105°C, lead-free stabilizer, insulation material  
PVC insulation material approved by UL according to QMTT2 document No. E73402, suitable for wet lots at 90°C

General Information			
Features	Oil resistance		
	Flame retardancy		
Uses	Wire and cable applications		
	Insulating material		
	Moisture-resistant insulating material		
Wire Types	MTW		
	THHN		
	THW		
	THW-2		
	THWN		
	THWN-2		
	TW		
Agency Ratings	UL I oil grade		
	UL QMTT2 .E73402		
RoHS Compliance	RoHS compliance		
Appearance	Opacity		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore C, 10 sec)	71		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	21.4	MPa	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	105	°C	ASTM D794
Brittleness Temperature	-19.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	3.4E+15	ohms·cm	ASTM D257
Dielectric Strength	35	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	4.36		ASTM D150
1 MHz	2.99		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	0.095		ASTM D150
1 MHz	0.058		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	27	%	ASTM D2863
Additional Information			

Volume Resistivity, ASTM D257, 23°C:  $2.7 \times 10^{15}$  ohm-cm Volume Resistivity, ASTM D257, 50°C:  $0.339 \times 10^{15}$  ohm-cm Oil Rating: 4 days @ 100 COil Rating: 60 days @ 75 C 720 Hour Sunlight Resistant

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#### Recommended distributors for this material

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