

Teknor Apex APEX[®] 80853-C Polyvinyl Chloride, Flexible

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Flexible Grade , PVC, Wire and Cable Grade

Material Notes:

Notes: 105[°]C, Non-lead Stabilized, Insulation; PVC Insulation intended for use in 90[°]C wet locations; RoHS Compliant
 Features: Flame Retardant; Oil Resistant Uses: Insulation; Wet Rated Insulation; Wire and Cable Applications
 Agency Ratings: UL I Oil Rating; UL QMTT2 .E73402 Forms: Pellets Wire Types: MTW; THW-2; TW; THHN; THWN; THW; THWN-2
 Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-APEX-80853-C-Polyvinyl-Chloride-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore C	71	71	10 seconds; ASTM D2240
Tensile Strength at Break	21.4 MPa	3100 psi	ASTM D638
Elongation at Break	350 %	350 %	ASTM D638

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 [°] C	221 [°] F	Continuous Use; ASTM D794
Brittleness Temperature	-19.0 [°] C	-2.20 [°] F	ASTM D746
Oxygen Index	27 %	27 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.40e+15 ohm-cm	3.40e+15 ohm-cm	ASTM D257
	3.39e+14 ohm-cm	3.39e+14 ohm-cm	ASTM D257
	@Temperature 50.0 [°] C	@Temperature 122 [°] F	
Dielectric Constant	2.70e+15 ohm-cm	2.70e+15 ohm-cm	ASTM D257
	@Temperature 23.0 [°] C	@Temperature 73.4 [°] F	
	2.99	2.99	ASTM D150
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
	4.36	4.36	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.058	0.058	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.095	0.095	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Appearance	Opaque	

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