



FLEXALLOY® 89501-83FR

Teknor Apex Company - Polyvinyl Chloride Elastomer

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Heat Resistance	• Low Temperature Flexibility	
Uses	• Wet Rated Insulation		
Wire Types	• NISPE-1	• SJEOW	
	• NISPE-2	• SJEW	• TF
	• SE	• SPE-1	• TFF
	• SEO	• SPE-2	• THHW
	• SEOW	• SPE-3	• THW
	• SEW	• SRDE	• TW
	• SJE	• SVE	• VW-1
	• SJEO	• SVEO	
Agency Ratings	• UL Class 11	• UL Class 36	• UL QMTT2
	• UL Class 12	• UL Class 43	
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		

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)	2600	psi	ASTM D638
Tensile Elongation (Break)	250	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	84		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	221	°F	ASTM D794
Brittleness Temperature	-49.0	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.2E+13	ohms·cm	ASTM D257
Dielectric Strength	580	V/mil	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	5.10		
1 MHz	3.38		
Dissipation Factor			ASTM D150
1 kHz	0.056		
1 MHz	0.089		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	29	%	ASTM D2863

Additional Information

Data Sheet Applies to Color(s) Listed Below:
Natural (0117833)