



# 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 • NISPE-2 • SE • SEO • SEOW • SEW • SJE • SJEO	• SJEOW • SJEW • SPE-1 • SPE-2 • SPE-3 • SRDE • SVE • SVEO	• TF • TFF • THHW • THW • TW • VW-1
Agency Ratings	• UL Class 11 • UL Class 12	• UL Class 36 • UL Class 43	• UL QMTT2
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
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

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.