

Manner Flexible PVC 6954

Manner Polymers - Flexible Polyvinyl Chloride

General Information

Product Description

Recommended Applications: 105°C TW/THHW/THHN/THWN/THWN-2 insulation compound. Manner 6954 is UL QMTT2 recognized for THWN-2 on all wire sizes. Compound 6954 meets VW-1, Oil Res I in all colors. This product complies with the European Union Restriction on Hazardous Substances (RoHS) directive.

General

Material Status	• Commercial: Active
Availability	• North America
Uses	• Insulation • Wire & Cable Applications
Agency Ratings	• UL QMTT2

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29 to 1.33		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ²	2200	psi	ASTM D638
Tensile Strength ²	3400	psi	ASTM D638
Tensile Elongation ² (Break)	350	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore C	77 to 83		
Shore C, 10 sec	67 to 73		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	5.00	°F	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ³ (277°F, 168 hr)	-4.0	%	UL Unspecified
Change in Ultimate Elongation in Air ³ (277°F, 168 hr)	-5.0	%	UL Unspecified
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+18	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	30	%	ASTM D2863

Notes

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

² Unaged Dumbbells

³ .03 Inch

