

Material Datasheet

Compound #: F70-E401

Fluorosilicone, Cord, Blue, General Purpose

Material Summary

Material Type:	Fluorosilicone
Durometer:	70
Color:	Blue
Special Properties:	Mil-R-25988B Class 1 Grade 70 Type 2
Recommended Temperature Range (Static):	-60°C (-76°F) to 176°C (350°F)

Property	Spec	Typical Results
Durometer ASTM D-2240	70+/- .5	67
Tensile Strength ASTM D-412	950 psi min	1120
Ultimate Elongation ASTM D-412	150 % min	340
Specific Gravity ASTM D 297	1.50+/- .03	1.51
Tear Strength Die B ASTM D-624	75 ppi min	88
Compression Set ASTM D-395 70 hrs @23.9C	15 % max	8
Compression Set ASTM D-395 22 hrs @175C	25 % max	12
Heat Aging 72 hrs @ 200 C		
Hardness Change in points	+10 to -5	3
Tensile Strength Change in %	-20 max	-9
Elongation Change in %	-25 max	-16
Weight Change in %	2 max	0.75
AMS 3021 Immersion 70 hrs at 150 C		
Hardness Change in points	+/-15	5
Tensile Strength Change in %	-40 max	-31
Elongation Change in %	-25 max	-13
Volume Change in %	+1 to 15 max	10
Compression Set %	30 max	18
TTS-735 Type 3 Immersion 70 hrs at 150 C		
Hardness Change in points	-20 max	-13
Tensile Strength Change in %	-45 max	-33
Elongation Change in %	-35 max	-24
Volume Change in %	+1 to 25 max	19

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