

Vicone High Performance Rubber VicoSil™ 159DLK-RD High Performance Silicone Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber

Material Notes:

Meets AMS 3302 Silicone 50 Durometer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vicone-High-Performance-Rubber-VicoSil-159DLK-RD-High-Performance-Silicone-Rubber.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	52	52	ASTM D2240
Tensile Strength	7.90 MPa	1150 psi	ASTM D412
	2.41 MPa @Strain 100 %	350 psi @Strain 100 %	ASTM D412
Elongation at Break	381 %	381 %	ASTM D412
Compressive Modulus	0.00280 GPa @Strain 5 %	0.406 ksi @Strain 5 %	ISO-7743
	0.00290 GPa @Strain 10 %	0.421 ksi @Strain 10 %	ISO-7743
	0.00310 GPa @Strain 20 %	0.450 ksi @Strain 20 %	ISO-7743
	0.00330 GPa @Strain 25 %	0.479 ksi @Strain 25 %	ISO-7743
Tear Strength	6.60 kN/m	37.7 pli	ASTM D624
Compression Set	22.8 %	22.8 %	ASTM D395
	@Temperature 150 °C, Time 252000 sec	@Temperature 302 °F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -65.0 °C	<= -85.0 °F	passes at 3 min.; ASTM D2137

Descriptive Properties	Value	Comments
Color	Red	
Effect of Liquids - Change in Elongation (%)	-6.7	ASTM D471; 150°C; 70 h
Effect of Liquids - Change in Hardness (%)	-7	ASTM D471; 150°C; 70 h
Effect of Liquids - Change in Tensile Strength (%)	-5.5	ASTM D471; 150°C; 70 h
Effect of Liquids - Change in Volume after Oil Immersion (%)	6.9	ASTM D471; 150°C; 70 h
Heat Aging - Change in Elongation (%)	-33.2	ASTM D573; 225°C; 70h
Heat Aging - Change in Hardness (%)	7	ASTM D573; 225°C; 70h
Heat Aging - Change in Tensile Strength (%)	-16.72	ASTM D573; 225°C; 70h

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