

Vicone High Performance Rubber VicoSil™ 139DLK-CL High Performance Silicone Rubber

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

Material Notes:

FDA Approved

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vicone-High-Performance-Rubber-VicoSil-139DLK-CL-High-Performance-Silicone-Rubber.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	33	33	ASTM D2240
Tensile Strength	4.50 MPa	653 psi	ASTM D412
Elongation at Break	570 %	570 %	ASTM D412
Compressive Modulus	0.00160 GPa	0.232 ksi	ISO-7743
	@Strain 5 %	@Strain 5 %	
	0.00170 GPa	0.247 ksi	ISO-7743
	@Strain 10 %	@Strain 10 %	
	0.00180 GPa	0.261 ksi	ISO-7743
	@Strain 20 %	@Strain 20 %	
	0.00190 GPa	0.276 ksi	ISO-7743
	@Strain 25 %	@Strain 25 %	
Compression Set	20 %	20 %	ASTM D395
Tensile Set	5.1 %	5.1 %	ASTM D412

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	clear grade; thickness not known

Descriptive Properties	Value	Comments
Color	Clear	
Effect of Liquids - Change in Elongation (%)	-7.2	ASTM D471
Effect of Liquids - Change in Hardness (%)	-7.5	ASTM D471

Descriptive Properties	Value	Comments
Effect of Liquids - Change in Tensile Strength (%)	-6.8	ASTM D471
Effect of Liquids - Change in Volume after Oil Immersion (%)	6.9	ASTM D471
Heat Aging - Change in Elongation (%)	-29	ASTM D573
Heat Aging - Change in Hardness (%)	7	ASTM D573; 200°C; 72h
Heat Aging - Change in Tensile Strength (%)	-17	ASTM D573

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