

Precision Polymer Engineering V90D Fluoroelastomer Compound

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Fluoroelastomer Rubber, 86-93 °IRHD. Copolymer of vinylidene fluoride and hexafluoropropylene. Meets Aerospace Specifications DTD5612A and DTD5543B Grade 90. ASTM designation = FKM. ISO designation = FPM. Applications: Mouldings which are required to operate within the approximate temperature range of -20°C(-4°F) to +225°C (437°F), in contact with air, petroleum, silicone and diester-based liquids. The material is not suitable for use in contact with certain phosphate-ester-based liquids.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-V90D-Fluoroelastomer-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	°IRHD; ASTM D1415
	84 - 96	84 - 96	°IRHD, ±6 change after 72 hours @ 250°C; ASTM D1415
Tensile Strength, Yield	8.80 MPa	1280 psi	-20% change after 72 hours @ 250°C; ASTM D412
	11.0 MPa	1600 psi	ASTM D412
Elongation at Break	94 %	94 %	-6% change after 72 hours @ 250°C; ASTM D412
	100 %	100 %	ASTM D412
Compression Set	20 %	20 %	24 hours @ 200°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	225 °C	437 °F	
Minimum Service Temperature, Air	-20.0 °C	-4.00 °F	
Flash Point	>= 315 °C	>= 599 °F	

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