

Precision Polymer Engineering V97D Fluoroelastomer Compound

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

Material Notes:

Fluoroelastomer Rubber, 92-98 °IRHD. Terpolymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene. Tested at the Shell Thornton Research Centre, where it has shown excellent resistance to explosive decompression (ED) under a known range of conditions. ASTM designation = FKM. ISO designation = FPM. Applications: Approved and specified by Shell for use in applications where ED conditions exist. ED occurs when low molecular weight gas atmospheres are reduced from high to low pressure in a short period of time.

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http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-V97D-Fluoroelastomer-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	°IRHD; ASTM D1415
Tensile Strength, Yield	11.8 MPa	1710 psi	ASTM D412
Elongation at Break	100 %	100 %	ASTM D412
Compression Set	40 %	40 %	168 hours @ 100°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	225 °C	437 °F	
Minimum Service Temperature, Air	-10.0 °C	14.0 °F	
Flash Point	>= 315 °C	>= 599 °F	

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