

Seals Eastern 7040 Fluorocarbon-Elastomer

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

Material Notes:

Seals Eastern's formulated Viton® elastomers can be utilized in seals, o-rings, gaskets, packings and other applications where thermal stability and chemical resistance are required. Features: Type 1 (Viton A) Chemical and heat resistant Viton® is a registered trademark of DuPont. Information provided by Seals Eastern.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-7040-Fluorocarbon-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.88 g/cc	1.88 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 70	>= 70	ASTM D2240
	80	80	Average; ASTM D2240
	80	80	Dry Heat Aging 392°F; 70 hr; ASTM D865
Tensile Strength	>= 10.3 MPa	>= 1500 psi	ASTM D412 Method A
	14.38 MPa	2086 psi	Dry Heat Aging 392°F; 70 hr; ASTM D865
	14.8 MPa	2150 psi	Average; ASTM D412 Method A
Tensile Stress	1.50 MPa	218 psi	Average; ASTM D412 Method A
	@Strain 25.0 %	@Strain 25.0 %	
	>= 1.76 MPa	>= 255 psi	ASTM D412 Method A
	@Strain 50.0 %	@Strain 50.0 %	
	2.50 MPa	363 psi	Average; ASTM D412 Method A
	@Strain 50.0 %	@Strain 50.0 %	
	>= 3.50 MPa	>= 507 psi	ASTM D412 Method A
	@Strain 100 %	@Strain 100 %	
	5.78 MPa	839 psi	Average; ASTM D412 Method A
	@Strain 100 %	@Strain 100 %	
Elongation at Break	>= 130 %	>= 130 %	ASTM D412 Method A
	162 %	162 %	Dry Heat Aging 392°F; 70 hr; ASTM D865

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	0.0141 GPa	2.05 ksi	Calculated; ASTM D412 Method A
Shear Modulus	0.00471 GPa	0.683 ksi	Calculated; ASTM D412 Method A
Secant Modulus	0.01553 GPa	2.253 ksi	ASTM D412 Method A
Tear Strength Test	282	282	psi; ASTM D624, Die B
Compression Set	34 % @Temperature 200 Â°C, Time 79200 sec	34 % @Temperature 392 Â°F, Time 22.0 hour	ASTM D395, Test B

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-27.2 Â°C	-17.0 Â°F	Retraction Temperature, TR10; ASTM D1329
Glass Transition Temp, Tg	-20.0 Â°C	-4.00 Â°F	ASTM D1329

Descriptive Properties	Value	Comments
Strain Energy/ Unit Volume at 20% Elongation (psi)	23	ASTM D412 Method A

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