

Seals Eastern 5794 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 3 (Viton GFLT) Low temperature service Fuel and chemical resistance 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-5794-Fluorocarbon-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.89 g/cc	1.89 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 75	>= 75	ASTM D2240
	80	80	Average; ASTM D2240
	80	80	Dry Heat Aging 392°F; 70 hr; ASTM D865
	81	81	Dry Heat Aging 392°F; 168 hr; ASTM D865
	81	81	Dry Heat Aging 392°F; 336 hr; ASTM D865
Tensile Strength	>= 15.4 MPa	>= 2240 psi	ASTM D412 Method A
	16.0 MPa	2320 psi	Average; ASTM D412 Method A
	16.5 MPa	2390 psi	Dry Heat Aging 392°F; 336 hr; ASTM D865
	16.6 MPa	2410 psi	Dry Heat Aging 392°F; 168 hr; ASTM D865
	17.1 MPa	2480 psi	Dry Heat Aging 392°F; 70 hr; ASTM D865
Tensile Stress	1.61 MPa	233 psi	Average; ASTM D412 Method A
	@Strain 25.0 %	@Strain 25.0 %	
	>= 2.48 MPa	>= 360 psi	ASTM D412 Method A
	@Strain 50.0 %	@Strain 50.0 %	
	2.56 MPa	371 psi	Average; ASTM D412 Method A
@Strain 50.0 %	@Strain 50.0 %		
	>= 5.45 MPa	>= 790 psi	

Mechanical Properties	Metric	English	ASTM D412 Method A Comments
	5.58 MPa @Strain 100 %	810 psi @Strain 100 %	Average; ASTM D412 Method A
Elongation at Break	>= 250 %	>= 250 %	ASTM D412 Method A
	260 %	260 %	Average; ASTM D412 Method A
	278 %	278 %	Dry Heat Aging 392Â°F; 336 hr; ASTM D865
	289 %	289 %	Dry Heat Aging 392Â°F; 168 hr; ASTM D865
	296 %	296 %	Dry Heat Aging 392Â°F; 70 hr; ASTM D865
Modulus of Elasticity	0.009894 GPa	1.435 ksi	Calculated; ASTM D412 Method A
Shear Modulus	0.00330 GPa	0.478 ksi	Calculated; ASTM D412 Method A
Secant Modulus	0.009322 GPa	1.352 ksi	ASTM D412 Method A
Tear Strength Test	148	148	psi; ASTM D624, Die B
Compression Set	17 % @Temperature 200 Â°C, Time 79200 sec	17 % @Temperature 392 Â°F, Time 22.0 hour	ASTM D395, Test B
	23 % @Temperature 200 Â°C, Time 252000 sec	23 % @Temperature 392 Â°F, Time 70.0 hour	ASTM D395, Test B
	29.6 % @Temperature 200 Â°C, Time 1.21e+6 sec	29.6 % @Temperature 392 Â°F, Time 336 hour	ASTM D395, Test B

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 Â°C	400 Â°F	
Minimum Service Temperature, Air	-31.1 Â°C	-24.0 Â°F	Retraction Temperature, TR10; ASTM D1329

Processing Properties	Metric	English	Comments
Shelf Life	240 Month	240 Month	

Descriptive Properties	Value	Comments
Strain Energy/ Unit Volume at 20% Elongation (psi)	25	ASTM D412 Method A

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