

Seals Eastern 5722A 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: Excellent mechanical properties Good extrusion resistance Chemical and heat resistant Type 1 (Viton A) 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-5722A-Fluorocarbon-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.84 g/cc	1.84 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 56	>= 56	ASTM D2240
	62	62	Dry Heat Aging 392°F; 1000 hr; ASTM D865
	62	62	Dry Heat Aging 392°F; 336 hr; ASTM D865
	62	62	Average; ASTM D2240
	63	63	Dry Heat Aging 392°F; 168 hr; ASTM D865
	63	63	Dry Heat Aging 392°F; 70 hr; ASTM D865
Tensile Strength	>= 5.29 MPa	>= 767 psi	ASTM D412 Method A
	7.963 MPa	1155 psi	Average; ASTM D412 Method A
	8.363 MPa	1213 psi	Dry Heat Aging 392°F; 70 hr; ASTM D865
	9.556 MPa	1386 psi	Dry Heat Aging 392°F; 1000 hr; ASTM D865
	9.797 MPa	1421 psi	Dry Heat Aging 392°F; 336 hr; ASTM D865
	9.873 MPa	1432 psi	Dry Heat Aging 392°F; 168 hr; ASTM D865
Tensile Stress	>= 0.951 MPa	>= 138 psi	ASTM D412 Method A
	@Strain 50.0 %	@Strain 50.0 %	
	1.05 MPa	152 psi	Average; ASTM D412 Method A
	@Strain 25.0 %	@Strain 25.0 %	

Mechanical Properties	Metric	English	Comments
	1.18 MPa	214 psi	Average; ASTM D412 Method A
	@Strain 50.0 %	@Strain 50.0 %	
	>= 1.58 MPa	>= 229 psi	ASTM D412 Method A
	@Strain 100 %	@Strain 100 %	
	2.22 MPa	322 psi	Average; ASTM D412 Method A
	@Strain 100 %	@Strain 100 %	
Elongation at Break	>= 180 %	>= 180 %	ASTM D412 Method A
	294 %	294 %	Dry Heat Aging 392Â°F; 1000 hr; ASTM D865
	320 %	320 %	Average; ASTM D412 Method A
	326 %	326 %	Dry Heat Aging 392Â°F; 336 hr; ASTM D865
	336 %	336 %	Dry Heat Aging 392Â°F; 70 hr; ASTM D865
	342 %	342 %	Dry Heat Aging 392Â°F; 168 hr; ASTM D865
Modulus of Elasticity	0.007370 GPa	1.069 ksi	Calculated; ASTM D412 Method A
Shear Modulus	0.00245 GPa	0.356 ksi	Calculated; ASTM D412 Method A
Secant Modulus	0.006929 GPa	1.005 ksi	ASTM D412 Method A
Tear Strength Test	141	141	psi; ASTM D624, Die B
Compression Set	19 %	19 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 79200 sec	@Temperature 392 Â°F, Time 22.0 hour	
	23 %	23 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	
	39 %	39 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 Â°C	400 Â°F	
Glass Transition Temp, Tg	-20.0 Â°C	-4.00 Â°F	ASTM D1329

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Descriptive Properties			
Descriptive Properties		Value	Comments
Strain Energy/ Unit Volume at 20% Elongation (psi)		19	ASTM D412 Method A

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