

Seals Eastern 5723 Fluorocarbon-Elastomer

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

Material Notes:

Formulated Viton®. General service. Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-5723-Fluorocarbon-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.92 g/cc	1.92 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 70	>= 70	ASTM D2240, Type A
	80	80	AVG; ASTM D2240, Type A
	79	79	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	
	79	79	
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	79	79	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 3.60e+6 sec	@Temperature 392 Â°F, Time 1000 hour	
	81	81	
	@Temperature 200 Â°C, Time 605000 sec	@Temperature 392 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
Tensile Strength at Break	>= 10.71 MPa	>= 1554 psi	ASTM D412 Method A
	16.85 MPa	2444 psi	AVG; ASTM D412 Method A
	12.98 MPa	1882 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 360000 sec	@Temperature 392 Â°F, Time 100 hour	
	14.83 MPa	2151 psi	
	@Temperature 200 Â°C, Time 605000 sec	@Temperature 392 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
	14.83 MPa	2151 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	
	14.83 MPa	2151 psi	
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865

Mechanical Properties	Metric ¹ MPa	English ¹	Comments
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
Tensile Strength, Yield	>= 1.90 MPa	>= 275 psi	Stress at Elongation M50; ASTM D412 Method A
	2.30 MPa	333 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 3.02 MPa	>= 438 psi	Stress at Elongation M100; ASTM D412 Method A
	3.34 MPa	484 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	5.78 MPa	839 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 181 %	>= 181 %	ASTM D412 Method A
	317 %	317 %	AVG; ASTM D412 Method A
	412 %	412 %	
	@Temperature 200 Â°C, Time 605000 sec	@Temperature 392 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
	415 %	415 %	
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	437.5 %	437.5 %	
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
	456.5 %	456.5 %	
	@Temperature 200 Â°C, Time 360000 sec	@Temperature 392 Â°F, Time 100 hour	After Dry Heat Aging; ASTM D865
Modulus of Elasticity	0.01590 GPa	2.306 ksi	ASTM D412 Method A
Shear Modulus	0.00530 GPa	0.769 ksi	ASTM D412 Method A
Secant Modulus	0.01495 GPa	2.168 ksi	ASTM D412 Method A
Tear Strength Test	215	215	(psi); ASTM D624, Die B
Compression Set	56 %	56 %	
	@Temperature 200 Â°C, Time 79200 sec	@Temperature 392 Â°F, Time 22.0 hour	ASTM D395, Test B
	82 %	82 %	
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	ASTM D395, Test B

Mechanical Properties	Metric	English	Comments
	@Temperature 200 Â°C, Time 1.21e+6 sec	@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	ASTM D1329
Glass Transition Temp, Tg	-20.0 Â°C	-4.00 Â°F	ASTM D1329

Processing Properties	Metric	English	Comments
Shelf Life	180 Month	180 Month	ASTM D395, Test B

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	41	

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