

Seals Eastern 7182A Fluorocarbon-Elastomer

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

Material Notes:

Formulated AFLASÂ® high-temperature, high-pressure "sour" oil & gas service. Resistant to extrusion. Excellent acid and base resistance. Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-7182A-Fluorocarbon-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 93	>= 93	ASTM D2240, Type A
	96	96	AVG; ASTM D2240, Type A
	93 @Temperature 200 Â°C, Time 252000 sec	93 @Temperature 392 Â°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
Hardness, Shore A	98 @Temperature 200 Â°C, Time 1.21e+6 sec	98 @Temperature 392 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	98 @Temperature 200 Â°C, Time 3.60e+6 sec	98 @Temperature 392 Â°F, Time 1000 hour	After Dry Heat Aging; ASTM D865
	98	98	After Dry Heat Aging; ASTM D865
Tensile Strength at Break	>= 15.9 MPa	>= 2300 psi	ASTM D412 Method A
	20.0 MPa	2900 psi	AVG; ASTM D412 Method A
	19.00 MPa @Temperature 200 Â°C, Time 252000 sec	2755 psi @Temperature 392 Â°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
Tensile Strength at Break	24.99 MPa @Temperature 200 Â°C, Time 3.60e+6 sec	3625 psi @Temperature 392 Â°F, Time 1000 hour	After Dry Heat Aging; ASTM D865
	25.79 MPa @Temperature 200 Â°C, Time 1.21e+6 sec	3741 psi @Temperature 392 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	25.79 MPa	3741 psi	After Dry Heat Aging; ASTM D865
Tensile Strength, Yield	>= 9.205 MPa	>= 1335 psi	Stress at Elongation M100; ASTM D412 Method A

Mechanical Properties	Metric	English	Comments
	>= 13.4 MPa	>= 1950 psi	Stress at Elongation M50; ASTM D412 Method A
	14.66 MPa	2126 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	18.38 MPa	2666 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 60 %	>= 60 %	ASTM D412 Method A
	75 %	75 %	AVG; ASTM D412 Method A
	74.3 %	74.3 %	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	
	82.5 %	82.5 %	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 3.60e+6 sec	@Temperature 392 Â°F, Time 1000 hour	
	84 %	84 %	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	
Tear Strength Test	323	323	(psi); ASTM D624, Die B
	32 %	32 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 79200 sec	@Temperature 392 Â°F, Time 22.0 hour	
	47 %	47 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	2.78 Â°C	37.0 Â°F	ASTM D1329

Processing Properties	Metric	English	Comments
Shelf Life	240 Month	240 Month	ASTM D395, Test B

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	283	

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