

## Seals Eastern 7182X Fluorocarbon-Elastomer

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

### Material Notes:

Formulated AFLASÂ®. Ultra-low compressive stress relaxation for alkaline, high-temperature service. Information provided by Seals Eastern, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Seals-Eastern-7182X-Fluorocarbon-Elastomer.php](http://www.lookpolymers.com/polymer_Seals-Eastern-7182X-Fluorocarbon-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 78	>= 78	ASTM D2240, Type A
	84	84	AVG; ASTM D2240, Type A
	80	80	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 3.60e+6 sec	@Temperature 392 Â°F, Time 1000 hour	
Hardness, Shore A	84	84	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	
Tensile Strength at Break	>= 19.3 MPa	>= 2800 psi	ASTM D412 Method A
	20.99 MPa	3045 psi	AVG; ASTM D412 Method A
	20.57 MPa	2984 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 3.60e+6 sec	@Temperature 392 Â°F, Time 1000 hour	
Tensile Strength at Break	22.46 MPa	3258 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	
Tensile Strength, Yield	2.92 MPa	423 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 3.79 MPa	>= 550 psi	Stress at Elongation M50; ASTM D412 Method A
	6.12 MPa	888 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 10.3 MPa	>= 1500 psi	Stress at Elongation M100; ASTM D412 Method A
			AVG Stress at Elongation M100;

Mechanical Properties	14.31 MPa Metric	2075 psi English	ASTM D412 Method A Comments
Elongation at Break	>= 100 %	>= 100 %	ASTM D412 Method A
	130 %	130 %	AVG; ASTM D412 Method A
	150.8 %	150.8 %	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	
	184.6 %	184.6 %	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 3.60e+6 sec	@Temperature 392 Â°F, Time 1000 hour	
Modulus of Elasticity	0.01674 GPa	2.428 ksi	ASTM D412 Method A
Shear Modulus	0.00558 GPa	0.809 ksi	ASTM D412 Method A
Secant Modulus	0.01573 GPa	2.282 ksi	ASTM D412 Method A
Tear Strength Test	182	182	(psi); ASTM D624, Die B
Compression Set	8.0 %	8.0 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 79200 sec	@Temperature 392 Â°F, Time 22.0 hour	
	11 %	11 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	
	14 %	14 %	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	218 Â°C	425 Â°F	ASTM D1329
Minimum Service Temperature, Air	2.22 Â°C	36.0 Â°F	Retraction Temperature, TR10; ASTM D1329
Brittleness Temperature	-40.0 Â°C	-40.0 Â°F	ASTM D746
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
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Strain Energy / Unit Volume at 20% Elongation (psi)

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Descriptive Properties	Value	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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