

## Seals Eastern 7182E Fluorocarbon-Elastomer

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

### Material Notes:

Formulated AFLASÂ® high-temperature "sour" oil & gas service. 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-7182E-Fluorocarbon-Elastomer.php](http://www.lookpolymers.com/polymer_Seals-Eastern-7182E-Fluorocarbon-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 84	>= 84	ASTM D2240, Type A
	89	89	AVG; ASTM D2240, Type A
	88	88	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	
Hardness, Shore A	89	89	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	>= 16.8 MPa	>= 2430 psi	ASTM D412 Method A
	21.59 MPa	3131 psi	AVG; ASTM D412 Method A
	20.51 MPa	2974 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	23.75 MPa	3444 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	
Tensile Strength, Yield	4.60 MPa	667 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 4.77 MPa	>= 692 psi	Stress at Elongation M50; ASTM D412 Method A
	7.715 MPa	1119 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 9.31 MPa	>= 1350 psi	Stress at Elongation M100; ASTM D412 Method A
			AVG Stress at Elongation M100;

Mechanical Properties	13.95 MPa Metric	2023 psi English	ASTM D412 Method A Comments
Elongation at Break	>= 120 %	>= 120 %	ASTM D412 Method A
	174 %	174 %	AVG; ASTM D412 Method A
	244 %	244 %	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 3.60e+6 sec	@Temperature 392 Â°F, Time 1000 hour	
	273 %	273 %	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	359	359	(psi); ASTM D624, Die B
Compression Set	21 %	21 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 79200 sec	@Temperature 392 Â°F, Time 22.0 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)	68	

## Contact Songhan Plastic Technology Co.,Ltd.

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