

## Seals Eastern 7148 Fluorocarbon-Elastomer

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

### Material Notes:

FKM specially for oil & gas service; ED resistant Information provided by Seals Eastern, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Seals-Eastern-7148-Fluorocarbon-Elastomer.php](http://www.lookpolymers.com/polymer_Seals-Eastern-7148-Fluorocarbon-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.908 g/cc	1.908 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 92	>= 92	ASTM D2240, Type A
	95	95	AVG; ASTM D2240, Type A
	96	96	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 605000 sec	@Temperature 392 Â°F, Time 168 hour	
	96	96	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	
Tensile Strength at Break	96	96	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 3.60e+6 sec	@Temperature 392 Â°F, Time 1000 hour	
	97	97	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	>= 13.8 MPa	>= 2000 psi	ASTM D412 Method A
	19.8 MPa	2870 psi	AVG; ASTM D412 Method A
	17.413 MPa	2525.6 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 360000 sec	@Temperature 392 Â°F, Time 100 hour	
	19.39 MPa	2813 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 605000 sec	@Temperature 392 Â°F, Time 168 hour	
Tensile Strength at Break	20.184 MPa	2927.4 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	

Mechanical Properties	Metric <sup>Pa</sup>	English <sup>l</sup>	Comments
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865
Tensile Strength, Yield	>= 5.94 MPa	>= 862 psi	Stress at Elongation M100; ASTM D412 Method A
	8.163 MPa	1184 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 8.96 MPa	>= 1300 psi	Stress at Elongation M50; ASTM D412 Method A
	11.78 MPa	1708 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	12.0 MPa	1740 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 60 %	>= 60 %	ASTM D412 Method A
	79 %	79 %	AVG; ASTM D412 Method A
	61.6 %	61.6 %	
	@Temperature 200 Â°C, Time 360000 sec	@Temperature 392 Â°F, Time 100 hour	After Dry Heat Aging; ASTM D865
	72.7 %	72.7 %	
	@Temperature 200 Â°C, Time 605000 sec	@Temperature 392 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
	75 %	75 %	
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	75.8 %	75.8 %	
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
Modulus of Elasticity	0.072912 GPa	10.575 ksi	ASTM D412 Method A
Shear Modulus	0.02430 GPa	3.525 ksi	ASTM D412 Method A
Secant Modulus	0.0685 GPa	9.94 ksi	ASTM D412 Method A
Tear Strength Test	221	221	(psi); ASTM D624, Die B
	15 %	15 %	
Compression Set	@Temperature 200 Â°C, Time 79200 sec	@Temperature 392 Â°F, Time 22.0 hour	ASTM D395, Test B
	22 %	22 %	
	@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
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)	188	

## Contact Songhan Plastic Technology Co.,Ltd.

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