

Seals Eastern 7130 Fluorocarbon-Elastomer

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-7130-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	>= 90	>= 90	ASTM D2240, Type A
	93	93	AVG; ASTM D2240, Type A
	92	92	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	
	93	93	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	
	94	94	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 3.60e+6 sec	@Temperature 392 Â°F, Time 1000 hour	
	94	94	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 605000 sec	@Temperature 392 Â°F, Time 168 hour	
Tensile Strength at Break	>= 17.2 MPa	>= 2500 psi	ASTM D412 Method A
	20.7 MPa	3000 psi	AVG; ASTM D412 Method A
	13.9 MPa	2010 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 360000 sec	@Temperature 392 Â°F, Time 100 hour	
	17.4 MPa	2520 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	
	17.6 MPa	2550 psi	After Dry Heat Aging; ASTM D865
	@Temperature 200 Â°C, Time 605000 sec	@Temperature 392 Â°F, Time 168 hour	

Mechanical Properties	Metric ^{Pa}	English ^l	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	6.21 MPa	900 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 7.58 MPa	>= 1100 psi	Stress at Elongation M50; ASTM D412 Method A
	10.3 MPa	1500 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 12.1 MPa	>= 1750 psi	Stress at Elongation M100; ASTM D412 Method A
	19.3 MPa	2800 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 100 %	>= 100 %	ASTM D412 Method A
	105 %	105 %	AVG; ASTM D412 Method A
	94.5 %	94.5 %	
	@Temperature 200 Â°C, Time 360000 sec	@Temperature 392 Â°F, Time 100 hour	After Dry Heat Aging; ASTM D865
	94.5 %	94.5 %	
	@Temperature 200 Â°C, Time 605000 sec	@Temperature 392 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
	98.7 %	98.7 %	
	@Temperature 200 Â°C, Time 1.21e+6 sec	@Temperature 392 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	107.1 %	107.1 %	
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
Modulus of Elasticity	0.03878 GPa	5.625 ksi	ASTM D412 Method A
Shear Modulus	0.01293 GPa	1.875 ksi	ASTM D412 Method A
Secant Modulus	0.03646 GPa	5.288 ksi	ASTM D412 Method A
Tear Strength Test	180	180	(psi); ASTM D624, Die B
Compression Set	12 %	12 %	
	@Temperature 200 Â°C, Time 79200 sec	@Temperature 392 Â°F, Time 22.0 hour	ASTM D395, Test B
	16 %	16 %	
	@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	232 Â°C	450 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)	100	

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