

Seals Eastern 7265D Fluorocarbon-Elastomer

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

Material Notes:

Formulated Viton-ETP®. High temperature service in aggressive chemicals; Good base resistance. Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-7265D-Fluorocarbon-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.82 g/cc	1.82 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 77	>= 77	ASTM D2240, Type A
	81	81	AVG; ASTM D2240, Type A
	77	77	
	@Temperature 93.3 Å°C, Time 3.60e+6 sec	@Temperature 200 Å°F, Time 1000 hour	After Dry Heat Aging; ASTM D865
	78	78	
	@Temperature 93.3 Å°C, Time 1.21e+6 sec	@Temperature 200 Å°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	79	79	
	@Temperature 93.3 Å°C, Time 252000 sec	@Temperature 200 Å°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
Tensile Strength at Break	>= 15.9 MPa	>= 2300 psi	ASTM D412 Method A
	16.5 MPa	2400 psi	AVG; ASTM D412 Method A
	13.40 MPa	1944 psi	
	@Temperature 93.3 Å°C, Time 252000 sec	@Temperature 200 Å°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
	13.90 MPa	2016 psi	
	@Temperature 93.3 Å°C, Time 1.21e+6 sec	@Temperature 200 Å°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	14.1 MPa	2040 psi	
	@Temperature 93.3		After Dry Heat Aging; ASTM D865

Mechanical Properties	Metric Â°C, Time 3.60e+6 sec	English @Temperature 200 Â°F, Time 1000 hour	Comments
Tensile Strength, Yield	1.97 MPa	285 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 2.62 MPa	>= 380 psi	Stress at Elongation M50; ASTM D412 Method A
	3.31 MPa	480 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 5.52 MPa	>= 800 psi	Stress at Elongation M100; ASTM D412 Method A
	6.34 MPa	920 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 190 %	>= 190 %	ASTM D412 Method A
	230 %	230 %	AVG; ASTM D412 Method A
	253 %	253 %	After Dry Heat Aging; ASTM D865
	@Temperature 93.3 Â°C, Time 252000 sec	@Temperature 200 Â°F, Time 70.0 hour	
	301.3 %	301.3 %	After Dry Heat Aging; ASTM D865
	@Temperature 93.3 Â°C, Time 1.21e+6 sec	@Temperature 200 Â°F, Time 336 hour	
	331 %	331 %	After Dry Heat Aging; ASTM D865
	@Temperature 93.3 Â°C, Time 3.60e+6 sec	@Temperature 200 Â°F, Time 1000 hour	
Modulus of Elasticity	0.0110 GPa	1.60 ksi	ASTM D412 Method A
Shear Modulus	0.00365 GPa	0.530 ksi	ASTM D412 Method A
Secant Modulus	0.0103 GPa	1.50 ksi	ASTM D412 Method A
Compression Set	27 %	27 %	ASTM D395, Test B
	@Temperature 93.3 Â°C, Time 252000 sec	@Temperature 200 Â°F, Time 70.0 hour	
	36 %	36 %	ASTM D395, Test B
	@Temperature 93.3 Â°C, Time 1.21e+6 sec	@Temperature 200 Â°F, Time 336 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	93.3 Â°C	200 Â°F	ASTM D1329

Thermal Properties	Metric	English	Comments
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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)	28	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China