

Seals Eastern 5861 Fluoro-silicone

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

Material Notes:

Fluoro-silicone meeting MIL-R-25988B Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-5861-Fluoro-silicone.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 48	>= 48	ASTM D2240, Type A
	51	51	AVG; ASTM D2240, Type A
	58	58	After Dry Heat Aging; ASTM D865
Tensile Strength at Break	@Temperature 177 °C, Time 252000 sec	@Temperature 350 °F, Time 70.0 hour	
	>= 8.69 MPa	>= 1260 psi	ASTM D412 Method A
	9.38 MPa	1360 psi	AVG; ASTM D412 Method A
Tensile Strength, Yield	8.405 MPa	1219 psi	After Dry Heat Aging; ASTM D865
	@Temperature 177 °C, Time 252000 sec	@Temperature 350 °F, Time 70.0 hour	
	1.03 MPa	150 psi	AVG Stress at Elongation M25; ASTM D412 Method A
Elongation at Break	>= 1.41 MPa	>= 205 psi	Stress at Elongation M50; ASTM D412 Method A
	1.48 MPa	214 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 2.08 MPa	>= 302 psi	Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	2.21 MPa	320 psi	AVG Stress at Elongation M100; ASTM D412 Method A
	>= 245 %	>= 245 %	ASTM D412 Method A
	340 %	340 %	AVG; ASTM D412 Method A
Elongation at Break	289 %	289 %	After Dry Heat Aging; ASTM D865
	@Temperature 177 °C, Time 252000 sec	@Temperature 350 °F, Time 70.0 hour	

Modulus of Elasticity Mechanical Properties	0.00681 GPa Metric	0.988 ksi English	ASTM D412 Method A Comments
Shear Modulus	0.00227 GPa	0.329 ksi	ASTM D412 Method A
Secant Modulus	0.00619 GPa	0.898 ksi	ASTM D412 Method A
Tear Strength Test	220	220	(psi); ASTM D624, Die B
Compression Set	15 % @Temperature 177 °C, Time 79200 sec	15 % @Temperature 350 °F, Time 22.0 hour	ASTM D395, Test B

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-51.7 °C	-61.0 °F	Retraction Temperature, TR10; ASTM D1329
Glass Transition Temp, Tg	-51.1 °C	-60.0 °F	ASTM D1329

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	18	

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