

Seals Eastern 5243 Neoprene / Chloroprene

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

General purpose neoprene information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-5243-Neoprene-Chloroprene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 65	>= 65	ASTM D2240, Type A
	75	75	AVG; ASTM D2240, Type A
Tensile Strength at Break	>= 13.42 MPa	>= 1947 psi	ASTM D412 Method A
	17.95 MPa	2603 psi	AVG; ASTM D412 Method A
Tensile Strength, Yield	>= 1.02 MPa	>= 148 psi	Stress at Elongation M50; ASTM D412 Method A
	1.23 MPa	179 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 1.40 MPa	>= 203 psi	Stress at Elongation M100; ASTM D412 Method A
	2.02 MPa	293 psi	AVG Stress at Elongation M50; ASTM D412 Method A
Elongation at Break	>= 194 %	>= 194 %	ASTM D412 Method A
	312 %	312 %	AVG; ASTM D412 Method A
Modulus of Elasticity	0.007453 GPa	1.081 ksi	ASTM D412 Method A
Shear Modulus	0.00248 GPa	0.360 ksi	ASTM D412 Method A
Secant Modulus	0.007012 GPa	1.017 ksi	ASTM D412 Method A
Tear Strength Test	293	293	(psi); ASTM D624, Die B
Compression Set	31 %	31 %	ASTM D395, Test B
	@Temperature 125 Â°C, Time 252000 sec	@Temperature 257 Â°F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-40.0 Â°C	-40.0 Â°F	ASTM D1329

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

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