Seals Eastern 7282 Neoprene / Chloroprene

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

Material Notes:

UL-flame resistant, non-blooming neopreneInformation provided by Seals Eastern, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Seals-Eastern-7282-Neoprene-Chloroprene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 58	>= 58	ASTM D2240, Type A
	62	62	AVG; ASTM D2240, Type A
	73 @Temperature 100 Â°C, Time 605000 sec	73 @Temperature 212 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
Tensile Strength at Break	>= 11.88 MPa	>= 1723 psi	ASTM D412 Method A
	14.84 MPa	2152 psi	AVG; ASTM D412 Method A
	12.47 MPa @Temperature 100 Â°C, Time 605000 sec	1808 psi @Temperature 212 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
Tensile Strength, Yield	1.00 MPa	145 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 1.03 MPa	>= 149 psi	Stress at Elongation M50; ASTM D412 Method A
	1.49 MPa	216 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 1.74 MPa	>= 252 psi	Stress at Elongation M100; ASTM D412 Method A
	2.62 MPa	380 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 287 %	>= 287 %	ASTM D412 Method A
	362 %	362 %	AVG; ASTM D412 Method A
	166.5 % @Temperature 100 Â°C, Time 605000 sec	166.5 % @Temperature 212 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	0.00614 GPa	0.890 ksi	ASTM D412 Method A
Shear Modulus	0.00205 GPa	0.297 ksi	ASTM D412 Method A
Secant Modulus	0.00539 GPa	0.782 ksi	ASTM D412 Method A
Tear Strength Test	198	198	(psi); ASTM D624, Die B
Compression Set	17 % @Temperature 100 Â°C, Time 252000 sec	17 % @Temperature 212 Â°F, Time 70.0 hour	ASTM D395, Test B

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)	16	

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