

Seals Eastern 7272 Butyl and Halobutyl Rubber

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

Material Notes:

General purpose Chlorobutyl; High damping Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-7272-Butyl-and-Halobutyl-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.115 g/cc	1.115 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 52	>= 52	ASTM D2240, Type A
	57	57	AVG; ASTM D2240, Type A
	65	65	After Dry Heat Aging; ASTM D865
Tensile Strength at Break	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	
	>= 12.95 MPa	>= 1878 psi	ASTM D412 Method A
	15.8 MPa	2290 psi	AVG; ASTM D412 Method A
Tensile Strength, Yield	14.21 MPa	2061 psi	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	
	>= 0.710 MPa	103 psi	AVG Stress at Elongation M25; ASTM D412 Method A
Elongation at Break	>= 0.724 MPa	>= 105 psi	Stress at Elongation M50; ASTM D412 Method A
	0.979 MPa	142 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 1.01 MPa	>= 147 psi	Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	1.63 MPa	237 psi	AVG Stress at Elongation M100; ASTM D412 Method A
	>= 333 %	>= 333 %	ASTM D412 Method A
	441 %	441 %	AVG; ASTM D412 Method A
Elongation at Break	348 %	348 %	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	

Modulus of Elasticity Mechanical Properties	0.00507 GPa Metric	0.735 ksi English	ASTM D412 Method A Comments
Shear Modulus	0.00169 GPa	0.245 ksi	ASTM D412 Method A
Secant Modulus	0.00476 GPa	0.691 ksi	ASTM D412 Method A
Tear Strength Test	275	275	(psi); ASTM D624, Die B
Compression Set	20 % @Temperature 100 Â°C, Time 252000 sec	20 % @Temperature 212 Â°F, Time 70.0 hour	ASTM D395, Test B

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-72.8 Â°C	-99.0 Â°F	ASTM D1329

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	11	

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