

Seals Eastern 7027 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-7027-Butyl-and-Halobutyl-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 69	>= 69	ASTM D2240, Type A
	74	74	AVG; ASTM D2240, Type A
	82	82	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	
Tensile Strength at Break	>= 10.37 MPa	>= 1504 psi	ASTM D412 Method A
	13.6 MPa	1970 psi	AVG; ASTM D412 Method A
	12.22 MPa	1773 psi	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	
Tensile Strength, Yield	1.04 MPa	151 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 1.41 MPa	>= 204 psi	Stress at Elongation M50; ASTM D412 Method A
	2.13 MPa	309 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 2.18 MPa	>= 316 psi	Stress at Elongation M100; ASTM D412 Method A
	3.84 MPa	557 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 177 %	>= 177 %	ASTM D412 Method A
	269 %	269 %	AVG; ASTM D412 Method A
	212.5 %	212.5 %	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	
Modulus of Elasticity	0.009673 GPa	1.403 ksi	ASTM D412 Method A
Shear Modulus	0.00323 GPa	0.468 ksi	ASTM D412 Method A
Secant Modulus	0.009094 GPa	1.319 ksi	ASTM D412 Method A

Mechanical Properties	Metric	English	Comments
Tear Strength Test	213	213	(psi), ASTM D624, Die B
Compression Set	25 % @Temperature 100 Â°C, Time 252000 sec	25 % @Temperature 212 Â°F, Time 70.0 hour	ASTM D395, Test B

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-38.9 Â°C	-38.0 Â°F	ASTM D1329

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	23	

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