

Seals Eastern 5407 Nitrile Rubber

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

General purpose Nitrile; Peroxide cured Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-5407-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 73	>= 73	ASTM D2240, Type A
	76	76	AVG; ASTM D2240, Type A
Tensile Strength at Break	>= 10.34 MPa	>= 1499 psi	ASTM D412 Method A
	16.91 MPa	2453 psi	AVG; ASTM D412 Method A
Tensile Strength, Yield	1.93 MPa	280 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 2.42 MPa	>= 351 psi	Stress at Elongation M50; ASTM D412 Method A
	3.56 MPa	516 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 5.18 MPa	>= 751 psi	Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	9.301 MPa	1349 psi	AVG Stress at Elongation M100; ASTM D412 Method A
	>= 71 %	>= 71 %	ASTM D412 Method A
Modulus of Elasticity	144 %	144 %	AVG; ASTM D412 Method A
	0.01322 GPa	1.918 ksi	ASTM D412 Method A
Shear Modulus	0.00436 GPa	0.632 ksi	ASTM D412 Method A
Secant Modulus	0.01243 GPa	1.803 ksi	ASTM D412 Method A
Tear Strength Test	99	99	(psi); ASTM D624, Die B

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-29.4 Â°C	-21.0 Â°F	ASTM D1329

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	28	

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