

Seals Eastern 5401 Nitrile Rubber

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

Material Notes:

General purpose Nitrile Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-5401-Nitrile-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 50	>= 50	ASTM D2240, Type A
	60	60	AVG; ASTM D2240, Type A
Tensile Strength at Break	>= 10.59 MPa	>= 1536 psi	ASTM D412 Method A
	13.64 MPa	1979 psi	AVG; ASTM D412 Method A
Tensile Strength, Yield	>= 0.0827 MPa	>= 12.0 psi	Stress at Elongation M100; ASTM D412 Method A
	>= 0.517 MPa	>= 75.0 psi	Stress at Elongation M50; ASTM D412 Method A
	0.752 MPa	109 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	0.896 MPa	130 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	1.19 MPa	173 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 458 %	>= 458 %	ASTM D412 Method A
	778 %	778 %	AVG; ASTM D412 Method A
Modulus of Elasticity	0.00511 GPa	0.741 ksi	ASTM D412 Method A
Shear Modulus	0.00170 GPa	0.247 ksi	ASTM D412 Method A
Secant Modulus	0.00480 GPa	0.696 ksi	ASTM D412 Method A
Tear Strength Test	308	308	(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)	12	

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