

Seals Eastern 5433 Nitrile Rubber

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

Material Notes:

General purpose Nitrile; Low water swell
Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-5433-Nitrile-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 65	>= 65	ASTM D2240, Type A
	75	75	AVG; ASTM D2240, Type A
	73 @Temperature 100 Â°C, Time 252000 sec	73 @Temperature 212 Â°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
Tensile Strength at Break	>= 16.87 MPa	>= 2447 psi	ASTM D412 Method A
	21.64 MPa	3138 psi	AVG; ASTM D412 Method A
	22.826 MPa @Temperature 100 Â°C, Time 252000 sec	3310.6 psi @Temperature 212 Â°F, Time 70.0 hour	ASTM D865
Tensile Strength, Yield	0.669 MPa	97.0 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 1.59 MPa	>= 231 psi	Stress at Elongation M50; ASTM D412 Method A
	2.10 MPa	304 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 2.48 MPa	>= 359 psi	Stress at Elongation M100; ASTM D412 Method A
	3.96 MPa	575 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 260 %	>= 260 %	ASTM D412 Method A
	379 %	379 %	AVG; ASTM D412 Method A
	367.6 % @Temperature 100 Â°C, Time 252000 sec	367.6 % @Temperature 212 Â°F, Time 70.0 hour	ASTM D865
Modulus of Elasticity	0.007874 GPa	1.142 ksi	ASTM D412 Method A
Shear Modulus	0.00263 GPa	0.381 ksi	ASTM D412 Method A
Secant Modulus	0.007405 GPa	1.074 ksi	ASTM D412 Method A

Mechanical Properties	Metric	English	Comments
Tear Strength Test	324	324	(psi), ASTM D624, Die B
Compression Set	7.5 % @Temperature 100 Â°C, Time 79200 sec	7.5 % @Temperature 212 Â°F, Time 22.0 hour	ASTM D395, Test B
	10 % @Temperature 100 Â°C, Time 252000 sec	10 % @Temperature 212 Â°F, Time 70.0 hour	ASTM D395, Test 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)	22	

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