

Seals Eastern 5484 Nitrile Rubber

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

Material Notes:

Low temperature service Nitrile Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-5484-Nitrile-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 75	>= 75	ASTM D2240, Type A
	85	85	AVG; ASTM D2240, Type A
	85	85	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	
Tensile Strength at Break	>= 6.76 MPa	>= 980 psi	ASTM D412 Method A
	12.39 MPa	1797 psi	AVG; ASTM D412 Method A
	10.90 MPa	1581 psi	ASTM D865
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	
Tensile Strength, Yield	>= 1.98 MPa	>= 287 psi	Stress at Elongation M50; ASTM D412 Method A
	2.61 MPa	378 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 3.70 MPa	>= 536 psi	Stress at Elongation M100; ASTM D412 Method A
	4.52 MPa	655 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	7.626 MPa	1106 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 68 %	>= 68 %	ASTM D412 Method A
	163 %	163 %	AVG; ASTM D412 Method A
	161.4 %	161.4 %	ASTM D865
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	

Modulus of Elasticity Mechanical Properties	0.01498 GPa Metric	2.172 ksi English	ASTM D412 Method A Comments
Shear Modulus	0.00499 GPa	0.724 ksi	ASTM D412 Method A
Secant Modulus	0.01408 GPa	2.042 ksi	ASTM D412 Method A
Compression Set	10 %	10 %	ASTM D395, Test B
	@Temperature 100 Â°C, Time 79200 sec	@Temperature 212 Â°F, Time 22.0 hour	
	19 %	19 %	ASTM D395, Test B
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	

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

Processing Properties	Metric	English	Comments
Shelf Life	60.0 Month	60.0 Month	ASTM D395, Test B

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	39	

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