

Seals Eastern 5403 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-5403-Nitrile-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 72	>= 72	ASTM D2240, Type A
	78	78	AVG; ASTM D2240, Type A
	78	78	After Dry Heat Aging; ASTM D865
	@Temperature 100 °C, Time 252000 sec	@Temperature 212 °F, Time 70.0 hour	
Tensile Strength at Break	82	82	After Dry Heat Aging; ASTM D865
	@Temperature 100 °C, Time 605000 sec	@Temperature 212 °F, Time 168 hour	
	>= 19.25 MPa	>= 2792 psi	ASTM D412 Method A
	22.71 MPa	3294 psi	AVG; ASTM D412 Method A
Tensile Strength, Yield	20.44 MPa	2965 psi	ASTM D865
	@Temperature 100 °C, Time 605000 sec	@Temperature 212 °F, Time 168 hour	
	22.94 MPa	3327 psi	ASTM D865
	@Temperature 100 °C, Time 252000 sec	@Temperature 212 °F, Time 70.0 hour	
Tensile Strength, Yield	>= 1.49 MPa	>= 216 psi	Stress at Elongation M50; ASTM D412 Method A
	1.61 MPa	233 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 2.18 MPa	>= 316 psi	Stress at Elongation M100; ASTM D412 Method A
	2.30 MPa	334 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	4.37 MPa	634 psi	AVG Stress at Elongation M100; ASTM D412 Method A

Elongation at Break Mechanical Properties	242 % Metric	242 % English	AVG: ASTM D412 Method A Comments
	283.9 % @Temperature 100 °C, Time 605000 sec	283.9 % @Temperature 212 °F, Time 168 hour	ASTM D865
	307.8 % @Temperature 100 °C, Time 252000 sec	307.8 % @Temperature 212 °F, Time 70.0 hour	ASTM D865
Modulus of Elasticity	0.01051 GPa	1.525 ksi	ASTM D412 Method A
Shear Modulus	0.00350 GPa	0.508 ksi	ASTM D412 Method A
Secant Modulus	0.009880 GPa	1.433 ksi	ASTM D412 Method A
Tear Strength Test	275	275	(psi); ASTM D624, Die B
Compression Set	8.6 % @Temperature 100 °C, Time 79200 sec	8.6 % @Temperature 212 °F, Time 22.0 hour	ASTM D395, Test B
	14 % @Temperature 100 °C, Time 252000 sec	14 % @Temperature 212 °F, Time 70.0 hour	ASTM D395, Test B

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

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	26	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China