

Seals Eastern 7345 Highly Saturated Nitrile Rubber

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

Material Notes:

HNBR for Oil & Gas service Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-7345-Highly-Saturated-Nitrile-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	AVG; ASTM D2240, Type A
	>= 70	>= 70	ASTM D2240, Type A
	74	74	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	>= 26.9 MPa	>= 3900 psi	ASTM D412 Method A
	27.2 MPa	3940 psi	AVG; ASTM D412 Method A
	26.9 MPa	3900 psi	ASTM D865
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	
Tensile Strength, Yield	1.28 MPa	185 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 1.63 MPa	>= 237 psi	Stress at Elongation M50; ASTM D412 Method A
	1.69 MPa	245 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 2.31 MPa	>= 335 psi	Stress at Elongation M100; ASTM D412 Method A
	2.83 MPa	410 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 420 %	>= 420 %	ASTM D412 Method A
	425 %	425 %	AVG; ASTM D412 Method A
	369.7 %	369.7 %	ASTM D865
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	

Modulus of Elasticity Mechanical Properties	0.0103 GPa Metric	1.49 ksi English	ASTM D412 Method A Comments
Shear Modulus	0.00344 GPa	0.499 ksi	ASTM D412 Method A
Secant Modulus	0.00965 GPa	1.40 ksi	ASTM D412 Method A
Tear Strength Test	440	440	(psi); ASTM D624, Die B
Compression Set	31 % @Temperature 100 Â°C, Time 252000 sec	31 % @Temperature 212 Â°F, Time 70.0 hour	ASTM D395, Test B

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	65.6 Â°C	150 Â°F	ASTM D1329
Glass Transition Temp, Tg	-18.3 Â°C	-1.00 Â°F	ASTM D1329

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	23	

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