

Seals Eastern 7336 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-7336-Highly-Saturated-Nitrile-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 77	>= 77	ASTM D2240, Type A
	80	80	AVG; ASTM D2240, Type A
	82	82	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	
	82	82	After Dry Heat Aging; ASTM D865
@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour		
Tensile Strength at Break	84	84	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 1.21e+6 sec	@Temperature 212 Â°F, Time 336 hour	
	84	84	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 3.60e+6 sec	@Temperature 212 Â°F, Time 1000 hour	
	25.13 MPa	3645 psi	
21.62 MPa	3135 psi	After Dry Heat Aging; ASTM D865	
@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour		
21.71 MPa	3149 psi	After Dry Heat Aging; ASTM D865	
@Temperature 100 Â°C, Time 1.21e+6 sec	@Temperature 212 Â°F, Time 336 hour		
21.89 MPa	3175 psi	After Dry Heat Aging; ASTM D865	
@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour		

Mechanical Properties	Metric ¹ MPa	English ¹	Comments
	@Temperature 100 Â°C, Time 3.60e+6 sec	@Temperature 212 Â°F, Time 1000 hour	After Dry Heat Aging; ASTM D865
Tensile Strength, Yield	1.97 MPa	285 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 2.55 MPa	>= 370 psi	Stress at Elongation M50; ASTM D412 Method A
	2.62 MPa	380 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 4.93 MPa	>= 715 psi	Stress at Elongation M100; ASTM D412 Method A
	5.07 MPa	735 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 290 %	>= 290 %	ASTM D412 Method A
	295 %	295 %	AVG; ASTM D412 Method A
	185 %	185 %	
	@Temperature 100 Â°C, Time 1.21e+6 sec	@Temperature 212 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	195.6 %	195.6 %	
	@Temperature 100 Â°C, Time 3.60e+6 sec	@Temperature 212 Â°F, Time 1000 hour	After Dry Heat Aging; ASTM D865
	204 %	204 %	
	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
	206 %	206 %	
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
Modulus of Elasticity	0.0138 GPa	2.00 ksi	ASTM D412 Method A
Shear Modulus	0.00462 GPa	0.670 ksi	ASTM D412 Method A
Secant Modulus	0.0131 GPa	1.90 ksi	ASTM D412 Method A
Tear Strength Test	570	570	(psi); ASTM D624, Die B
	33 %	33 %	
Compression Set	@Temperature 100 Â°C, Time 79200 sec	@Temperature 212 Â°F, Time 22.0 hour	ASTM D395, Test B
	37.5 %	37.5 %	
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	ASTM D395, Test B

Mechanical Properties	Metric	English	Comments
	@Temperature 100 Â°C, Time 1.21e+6 sec	@Temperature 212 Â°F, Time 336 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)	36	

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