

Seals Eastern 7202 Nitrile Rubber

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

Material Notes:

Nitrile for oil & gas service Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-7202-Nitrile-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 65	>= 65	ASTM D2240, Type A
	70	70	AVG; ASTM D2240, Type A
	71	71	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	
	73	73	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	
74	74	After Dry Heat Aging; ASTM D865	
@Temperature 100 Â°C, Time 1.21e+6 sec	@Temperature 212 Â°F, Time 336 hour		
Tensile Strength at Break	77	77	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 3.60e+6 sec	@Temperature 212 Â°F, Time 1000 hour	
	>= 17.15 MPa	>= 2487 psi	ASTM D412 Method A
	21.28 MPa	3086 psi	AVG; ASTM D412 Method A
	22.00 MPa	3191 psi	After Dry Heat Aging; ASTM D865
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	
22.92 MPa	3324 psi	After Dry Heat Aging; ASTM D865	
@Temperature 100 Â°C, Time 1.21e+6 sec	@Temperature 212 Â°F, Time 336 hour		
23.06 MPa	3345 psi	After Dry Heat Aging; ASTM D865	
@Temperature 100 Â°C, Time 3.60e+6 sec	@Temperature 212 Â°F, Time 1000 hour		

Mechanical Properties	Metric ^{Pa}	English ^l	Comments
	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
Tensile Strength, Yield	>= 1.01 MPa	>= 146 psi	Stress at Elongation M50; ASTM D412 Method A
	1.68 MPa	243 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	1.90 MPa	275 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 2.07 MPa	>= 300 psi	Stress at Elongation M100; ASTM D412 Method A
	3.21 MPa	466 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 255 %	>= 255 %	ASTM D412 Method A
	475 %	475 %	AVG; ASTM D412 Method A
	309.7 %	309.7 %	
	@Temperature 100 Â°C, Time 1.21e+6 sec	@Temperature 212 Â°F, Time 336 hour	After Dry Heat Aging; ASTM D865
	339 %	339 %	
	@Temperature 100 Â°C, Time 3.60e+6 sec	@Temperature 212 Â°F, Time 1000 hour	After Dry Heat Aging; ASTM D865
	368.6 %	368.6 %	
	@Temperature 100 Â°C, Time 605000 sec	@Temperature 212 Â°F, Time 168 hour	After Dry Heat Aging; ASTM D865
	452 %	452 %	
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	After Dry Heat Aging; ASTM D865
Modulus of Elasticity	0.00862 GPa	1.25 ksi	ASTM D412 Method A
Shear Modulus	0.00287 GPa	0.416 ksi	ASTM D412 Method A
Secant Modulus	0.008101 GPa	1.175 ksi	ASTM D412 Method A
Compression Set	10.4 %	10.4 %	
	@Temperature 100 Â°C, Time 79200 sec	@Temperature 212 Â°F, Time 22.0 hour	ASTM D395, Test B
	13.6 %	13.6 %	
	@Temperature 100 Â°C, Time 252000 sec	@Temperature 212 Â°F, Time 70.0 hour	ASTM D395, Test B
	20.9 %	20.9 %	

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
Glass Transition Temp, Tg	-25.0 Â°C	-13.0 Â°F	ASTM D1329

Processing Properties	Metric	English	Comments
Shelf Life	120 Month	120 Month	ASTM D395, Test B

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	22	

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