

## Seals Eastern 5483 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-5483-Nitrile-Rubber.php](http://www.lookpolymers.com/polymer_Seals-Eastern-5483-Nitrile-Rubber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 70	>= 70	ASTM D2240, Type A
	80	80	AVG; ASTM D2240, Type A
Tensile Strength at Break	>= 6.909 MPa	>= 1002 psi	ASTM D412 Method A
	11.76 MPa	1705 psi	AVG; ASTM D412 Method A
	11.64 MPa @Temperature 100 Â°C, Time 252000 sec	1688 psi @Temperature 212 Â°F, Time 70.0 hour	ASTM D865
Tensile Strength, Yield	>= 0.538 MPa	>= 78.0 psi	Stress at Elongation M50; ASTM D412 Method A
	>= 1.06 MPa	>= 154 psi	Stress at Elongation M100; ASTM D412 Method A
	1.33 MPa	193 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	2.15 MPa	312 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	4.73 MPa	686 psi	AVG Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 131 %	>= 131 %	ASTM D412 Method A
	242 %	242 %	AVG; ASTM D412 Method A
	273.5 % @Temperature 100 Â°C, Time 252000 sec	273.5 % @Temperature 212 Â°F, Time 70.0 hour	ASTM D865
Modulus of Elasticity	0.007763 GPa	1.126 ksi	ASTM D412 Method A
Shear Modulus	0.00259 GPa	0.375 ksi	ASTM D412 Method A

Secant Modulus Mechanical Properties	0.007302 GPa Metric	1.059 ksi English	ASTM D412 Method A Comments
Compression Set	13 %	13 %	ASTM D395, Test B
	@Temperature 100 Â°C, Time 79200 sec	@Temperature 212 Â°F, Time 22.0 hour	
	18 %	18 %	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	-46.7 Â°C	-52.0 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)	20	

## Contact Songhan Plastic Technology Co.,Ltd.

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