

## Seals Eastern 7346 Extreme Low Temperature Service Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

**Material Notes:**

HNBR for cold temp (-50°C) and/or aqueous service Information provided by Seals Eastern.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Seals-Eastern-7346-Extreme-Low-Temperature-Service-Rubber.php](http://www.lookpolymers.com/polymer_Seals-Eastern-7346-Extreme-Low-Temperature-Service-Rubber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 73	>= 73	ASTM D2240
	75	75	Average; ASTM D2240
	87	87	Dry Heat Aging 392°F; 70 hr; ASTM D865
Tensile Strength	15.7 MPa	2280 psi	Dry Heat Aging 392°F; 70 hr; ASTM D865
	>= 16.5 MPa	>= 2400 psi	ASTM D412 Method A
	17.9 MPa	2590 psi	Average; ASTM D412 Method A
Tensile Stress	1.72 MPa	250 psi	ASTM D412 Method A
	@Strain 25.0 %	@Strain 25.0 %	
	>= 2.07 MPa	>= 300 psi	ASTM D412 Method A
	@Strain 50.0 %	@Strain 50.0 %	
	2.24 MPa	325 psi	ASTM D412 Method A
	@Strain 50.0 %	@Strain 50.0 %	
>= 3.52 MPa	>= 510 psi	ASTM D412 Method A	
@Strain 100 %	@Strain 100 %		
Elongation at Break	3.79 MPa	550 psi	ASTM D412 Method A
	@Strain 100 %	@Strain 100 %	
	>= 210 %	>= 210 %	ASTM D412 Method A
	237 %	237 %	Dry Heat Aging 392°F; 70 hr; ASTM D865
	300 %	300 %	Average; ASTM D412 Method A

Modulus of Elasticity Mechanical Properties	0.0100 GPa Metric	1.45 ksi English	Calculated; ASTM D412 Method A Comments
Shear Modulus	0.00331 GPa	0.480 ksi	Calculated; ASTM D412 Method A
Secant Modulus	0.00958 GPa	1.39 ksi	ASTM D412 Method A
Compression Set	44 % @Temperature 150 Â°C, Time 252000 sec	44 % @Temperature 302 Â°F, Time 70.0 hour	ASTM D395, Test B

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	149 Â°C	300 Â°F	
Minimum Service Temperature, Air	-50.0 Â°C	-58.0 Â°F	
	-35.0 Â°C	-31.0 Â°F	Retraction Temperature, TR10; ASTM D1329
Glass Transition Temp, Tg	-45.6 Â°C	-50.0 Â°F	ASTM D1329

Processing Properties	Metric	English	Comments
Shelf Life	120 Month	120 Month	

Descriptive Properties	Value	Comments
Strain Energy/ Unit Volume at 20% Elongation (psi)	35	ASTM D412 Method A

## Contact Songhan Plastic Technology Co.,Ltd.

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