

Seals Eastern 7045 Ethylene-Propylene Rubber

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

Material Notes:

General service EPDM. Information provided by Seals Eastern, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Seals-Eastern-7045-Ethylene-Propylene-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 75	>= 75	ASTM D2240, Type A
	85	85	AVG; ASTM D2240, Type A
Tensile Strength at Break	>= 13.0 MPa	>= 1880 psi	ASTM D412 Method A
	16.12 MPa	2338 psi	AVG; ASTM D412 Method A
Tensile Strength, Yield	2.21 MPa	321 psi	AVG Stress at Elongation M25; ASTM D412 Method A
	>= 2.28 MPa	>= 331 psi	Stress at Elongation M50; ASTM D412 Method A
	3.68 MPa	534 psi	AVG Stress at Elongation M50; ASTM D412 Method A
	>= 4.36 MPa	>= 632 psi	Stress at Elongation M100; ASTM D412 Method A
Elongation at Break	>= 160 %	>= 160 %	ASTM D412 Method A
	251 %	251 %	AVG; ASTM D412 Method A
Modulus of Elasticity	0.01837 GPa	2.665 ksi	ASTM D412 Method A
Shear Modulus	0.00614 GPa	0.890 ksi	ASTM D412 Method A
Secant Modulus	0.0172 GPa	2.50 ksi	ASTM D412 Method A
Compression Set	17 %	17 %	ASTM D395, Test B
	@Temperature 100 °C, Time 252000 sec	@Temperature 212 °F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Air Thermal Properties	107 °C Metric	225 °F English	ASTM D1329 Comments
Brittleness Temperature	-51.1 °C	-60.0 °F	ASTM D746
Glass Transition Temp, Tg	-51.1 °C	-60.0 °F	ASTM D1329

Processing Properties	Metric	English	Comments
Shelf Life	180 Month	180 Month	

Descriptive Properties	Value	Comments
Strain Energy / Unit Volume at 20% Elongation (psi)	47	

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