

## Seals Eastern 7042 Fluorocarbon-Elastomer

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

Seals Eastern's formulated Viton® elastomers can be utilized in seals, o-rings, gaskets, packings and other applications where thermal stability and chemical resistance are required. Features: Type 1 (Viton A) Chemical and heat resistant Viton® is a registered trademark of DuPont. Information provided by Seals Eastern.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Seals-Eastern-7042-Fluorocarbon-Elastomer.php](http://www.lookpolymers.com/polymer_Seals-Eastern-7042-Fluorocarbon-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.83 g/cc	1.83 g/cc	ASTM D297, 15

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 85	>= 85	ASTM D2240
	95	95	Average; ASTM D2240
	96	96	Dry Heat Aging 392°F; 70 hr; ASTM D865
Tensile Strength	>= 9.908 MPa	>= 1437 psi	ASTM D412 Method A
	13.05 MPa	1893 psi	Average; ASTM D412 Method A
	13.97 MPa	2026 psi	Dry Heat Aging 392°F; 70 hr; ASTM D865
Tensile Stress	5.10 MPa	740 psi	Average; ASTM D412 Method A
	@Strain 25.0 %	@Strain 25.0 %	
	>= 5.86 MPa	>= 850 psi	ASTM D412 Method A
	@Strain 50.0 %	@Strain 50.0 %	Average; ASTM D412 Method A
	7.619 MPa	1105 psi	
	@Strain 50.0 %	@Strain 50.0 %	
	>= 8.27 MPa	>= 1200 psi	ASTM D412 Method A
	@Strain 100 %	@Strain 100 %	
	10.7 MPa	1550 psi	Average; ASTM D412 Method A
Elongation at Break	@Strain 100 %	@Strain 100 %	ASTM D412 Method A
	>= 63 %	>= 63 %	
	97 %	97 %	Dry Heat Aging 392°F; 70 hr; ASTM D865

Mechanical Properties	Metric	English	Comments
Compression Set	18 %	18 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 79200 sec	@Temperature 392 Â°F, Time 22.0 hour	
	32 %	32 %	ASTM D395, Test B
	@Temperature 200 Â°C, Time 252000 sec	@Temperature 392 Â°F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 Â°C	450 Â°F	
Minimum Service Temperature, Air	-27.2 Â°C	-17.0 Â°F	Retraction Temperature, TR10; ASTM D1329
Brittleness Temperature	-34.4 Â°C	-30.0 Â°F	ASTM D746
Glass Transition Temp, Tg	-20.0 Â°C	-4.00 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)	87	ASTM D412 Method A

## Contact Songhan Plastic Technology Co.,Ltd.

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