

Isolast® General Purpose J9440



Improved value with excellent chemical resistance over a broad range of applications



Your Partner for Sealing Technology

Isolast® J9440

The Isolast® range of high specification perfluoroelastomer compounds has been developed to provide equipment manufacturers and end users with sealing solutions compatible with virtually all chemical media, over the widest temperature range possible. Unique Isolast® formulations give real benefits and cost advantages by providing optimum seal reliability and extending service life. Seal performance is further enhanced by superior hysteresis and compression set characteristics, which ensure high elasticity and dynamic recovery, minimizing risk of seal failure.

Isolast® J9440 is an improved value material grade, an advanced perfluoroelastomer compound developed to give excellent chemical resistance in a broad range of chemical media at continuous operating temperatures from -7°C to $+230^{\circ}\text{C}$ / $+19^{\circ}\text{F}$ to $+446^{\circ}\text{F}$. It is particularly suitable for use in mechanical seals, lacquer and paint applications, pumps, valves and power generation equipment.

Features:

- Excellent chemical compatibility
- Thermal stability from -7°C to $+230^{\circ}\text{C}$ / $+19^{\circ}\text{F}$ to $+446^{\circ}\text{F}$
- Excellent long-term compression set characteristics
- Exceptional hysteresis properties
- Available as standard and non-standard O-Rings, custom-molded designs and bonded products

Applications:

- Chemical processing
- Hydrocarbon processing
- Diesel engines
- Power generation
- Lacquer, print and coatings
- Semiconductor fabrication
- Mechanical seals
- Pumps and valves
- Filters, flanges and couplings

Isolast® J9440 Compound Data

Compound Number:		J9440		
Elastomer base:	DIN ISO 1629	FFKM		
Hardness:	DIN 53 505	75 +/- 5 Shore A		
Color:		black		
Specific gravity:		DIN 53 479	g/cm ³	2.03 ± -0.03
Tensile strength:		DIN 53 504	MPa N/mm ² / psi	17.4 / 3,191
Elongation at break:		DIN 53 504	%	161
Compression set:	72 h / 200 °C / 392 °F	DIN ISO 815 Type B	%	30
Service temperature:			°C/°F	-7 to +230 / +19 to +446

Material properties are average values resulting from tests, as specified, on standard test samples. The values are for guidance only. It is the responsibility of the user to test material for suitability within a specific application.

Trelleborg Sealing Solutions offers:

- Quality levels to ISO 9001-2000 including 100% inspection and zero defects
- Wash and pack to class 100 standards
- Leading-edge in-house polymer development test capability
- Sealing solutions using our extensive design facilities, including material specific non-linear Finite Element Analysis (FEA)
- Comprehensive technical support and after-sales service through the global Trelleborg Sealing Solutions network

www.tss.trelleborg.com

