replacement parts industries, inc.

ETHYLENE PROPYLENE RUBBER (EPM, EPDM)

Temperature range: -65° to +300°F (-54° to +149°C).

Call (800) 221-9723 • FAX (818) 882-7028 • EMAIL order@rpiparts.com

O-RINGS

This information is provided as a guideline and quick reference for approximate identification of an Oring. There may be many factors that need to be considered when determining proper O-ring material. Further investigation for a given application may be required. In addition, to more accurately determine the dimensions of an O-ring, precision measuring equipment (such as Calipers) should be used.

EP is recommended for: Phosphoto octor baco bydraulie fluide	the dimensions of an O-ring, precision measuring ed	quipment (such as Calipers) should be used.
 Phospirate ester base hydraulic huids Steam (to 400°F) (204°C) Water Silicone oils and greases Dilute acids Dilute alkalies Ketones (MEK, acetone) 	HOW TO USE THIS CHART Lay 0-ring over cross-section pictorials to determine approximate cross-section diam- eter. (For best results cut 0-ring and place round cross-section onto pictorial.)	HOW TO USE THIS CHART 1. Align outer edge of O-ring to the 0.00 line. 2. Read opposite edge of O-ring for approxi- mate outside diameter (0.D.).
Alcohols	STANDARD CROSS-SECTIONS	
EP is not recommended for:	PER AS508A	
Petroleum olis Di-ester base lubricants	。 .031	.100050 0.00
SILICONE RUBBER (SI) Temperature range: -65° to +450°F (-54°C to +232°C).	°	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Silicones are recommended for: • Dynamic sealing application • Dry heat	.039	.600550 .700750 .800750 .900850
High-aniline point oilsChlorinated di-phenyls	QUAD	
Silicones are not recommended for: • Most petroleum fluids • Ketones (MEK acetone)	。 .051	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Water and steam	0 .063	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
FLUOROCARBON RUBBER VITON (FKM) Temperature range: -15° to +400°F (-29° to +204°C).	0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
FKM is recommended for: • Petroleum oils	.079	.400450 .500450 .550
Di-ester base lubricants Silicate actor base lubricants	0	.600 <u>.6</u> 50 .700 <u>.7</u> 50
Silicone fluids and greases Halogenated bydrocarbons (carbon tetrachloride	.080	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
 Selected phosphate ester fluids Acids 	OTHER AVAILABLE CROSS-SECTIONS	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<i>FKM is not recommended for:</i> • Ketones (MEK, acetone) • Skydrol fluids	。 .040	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0	
Temperature range of -65° to $+275^{\circ}$ F (-54° to $+135^{\circ}$ C).	.050	.300
<i>Nitrile is recommended for:</i> • General purpose sealing • Petroleum oils and fluids	0 .060	.600550 .700750 .800750 .900850
 Cold water Silicone greases and oils 	0	
Di-Ester base lubricants Ethylene Clycol base fluids (Hydrolubes)	.070	.200250 .300250 .400350
Nitrite is not recommended for:	0	.500550 .600550
 Halogenated hydrocarbons (carbon, tetrachloride, trichlorethylene) 	.105	./00750 .800750 .900850
 Nitro hydrocarbons (nitrobenzene, aniline) Phosphate ester hydraulic fluids (Skydrol, Fyrquel, Py- 	.139	
draul) • Ketones (MEK, acetone)	\frown	
Strong acids Ozone	.210	Source of information: Parker O-Ring Handbook, Parker Seals, ORD5700, Parker Hannifin Corpora- tion. Cleveland. OH