


<b>ORING.SU</b>				
<b>Material Data Sheet</b>	Code	<b>V97B</b>	Issue 2, Revision 4	
	Designation	<b>FKM / FPM</b>	October 2005	

**MATERIAL TYPE:** Fluoroelastomer Rubber, 90-98 °IRHD.

Terpolymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene. To meet ASTM D2000 line call-out M3HK914, A1-10, B37, B38, EF31, EO78, Z1. Where Z1 = hardness 90-98.

ASTM designation = FKM. ISO designation = FPM.

**APPLICATION:** A hard, anti-extrusion resistant rubber, specially designed for use in high pressure applications. Excellent resistance to oils, fuels and hydraulic fluids at high temperature.

**TEMPERATURE RANGE:** Maximum operating temperature +225°C (437°F).  
Minimum operating temperature -10°C (+14°F).

**SHELF LIFE CLASSIFICATIONS:** Initial storage = 10 years, extended storage = 5 years.

<b>TYPICAL PHYSICAL PROPERTIES:</b>			
<b>Property</b>	<b>Unit</b>	<b>Test method</b>	<b>Value</b>
Hardness (points)	°IRHD	ASTM D1415 (=ISO 48)	95
Tensile strength	Mpa	ASTM D412 (=ISO 37)	15
Elongation at break	%	ASTM D412 (=ISO 37)	100
<b>Compression Set, Method B;</b>			
24 hours at 200°C (392°F)	%	ASTM D395 (=ISO 815)	25
<b>Heat Resistance;</b>			
72 hours at 250°C (482°F)		ASTM 573 (=ISO 188)	
Hardness change (points)	°IRHD	ASTM D1415 (=ISO 48)	+2
Tensile strength change	%	ASTM D412 (=ISO 37)	-10
Elongation at break change	%	ASTM D412 (=ISO 37)	-10

**COSHH HEALTH AND SAFETY DATA:** No known hazard exists if used in accordance with the temperature range as quoted.

**FIRE HAZARD:** Ignition temperature >315°C (599°F). Thermal decomposition will generate; hydrogen fluoride, fluorinated hydrocarbons, carbon monoxide and carbonyl fluoride. In the event of fire, fire-fighters must wear self-contained breathing apparatus and a protective suit. Extinguish with water, foam, carbon dioxide or dry chemical. Neutralise any refuse from a fire involving fluoroelastomer with calcium hydroxide solution and wear Neoprene® gloves before handling.

**DISPOSAL:** Must conform to national, state and/or local regulations. Landfill is recommended. Burning is not recommended, unless conducted by an approved/licensed incineration agency.

**SPECIAL NOTE:** This information is to the best of our knowledge accurate to the date indicated. However, PPE make no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life, therefore a regular program of inspection and replacement is strongly recommended.

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