


ORING.SU				
Material Data Sheet	Code	E70K	Issue 2 Revision 2	
	Designation	EPDM (EPT)	August 2003	

MATERIAL TYPE: General purpose, peroxide cured, Ethylene Propylene Terpolymer, 70-75 °IRHD.
 Terpolymer of ethylene, propylene and diene monomers.
 To meet ASTM D2000/SAE J200 line call-out M5CA710, A25, B35, C32, EA14, F17.

APPLICATION: Excellent water and steam resistance with good compression set properties. Better heat and chemical resistance than sulphur cured EPDM. Not mineral oil resistant.

TEMPERATURE RANGE: Continuous operation from -40°C to +125°C.
 Shorter term, intermittent operation possible up to a practical limit of +150°C.

SHELF LIFE CLASSIFICATION:

BS3574 = Group 'C' rubber, initial storage = 10 years, extended storage = 5 years. *

* The periods quoted are dependent upon strict compliance to the standard.

TYPICAL PHYSICAL PROPERTIES:				
Property	Unit	Test Method		Value
Hardness (points)	°IRHD	ASTM D 1415	(=ISO 48)	74
Tensile strength	MPa	ASTM D 412	(=ISO 37)	14.6
Elongation at break	%	ASTM D 412	(=ISO 37)	202
Compression Set, Method B:				
24 hours at 125°C (257°F)	%	ASTM D 395	(=ISO 815)	5
Heat Resistance:				
70 hours at 100°C (212°F)		ASTM D 573	(=ISO 188)	
Hardness change (points)	°IRHD	ASTM D 1415	(=ISO 48)	+3
Tensile strength change (%)				-1
Elongation a break change (%)				-11

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

FIRE HAZARD: Ignition temperature >200°C.

Thermal decomposition will generate carbon monoxide, hydrocarbons and complex fumes derived from organic accelerators, antioxidants and process aids. In the event of a fire, fire fighters must wear self-contained breathing apparatus and protective clothing. Extinguish with water, foam, carbon dioxide or dry chemical.

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 give 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.