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.