

# MATERIAL TEST DATA

TRP COMPOUND REFERENCE  
N°: F243 (page 1 of 2)

Polymer Type: \*Viton® Extreme



## Description

Viton ETP (Extreme) can resist both aromatic hydrocarbons and alcohols. In addition it can offer good resistance to polar solvents like methyl ethyl ketone as well as both strong acids and bases. It has excellent resistance to hydrogen sulphide, making suitable for use in sour environments in the oil and gas industries.

**Service Temperature -10°C (+14°F) to +200°C (+392°F). Peak Upper Temperature +250°C (+482°F).**

**\*Viton® is a registered trademark of DuPont Performance Elastomers.**

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	Black	
	Hardness (°IRHD)	70	ISO 48
	Tensile Strength (MPa)	18	ISO 37
	Modulus @ 100% (MPa)	7.0	ISO 37
	Elongation @ Break (%)	230	ISO 37
	Specific Gravity (g/cm <sup>3</sup> )	1.94	ISO 2781
	Compression Set 24hrs @ 200°C (%)	35	ISO 815

Low Temperature	Property (Gehman Torsional Modulus)	Typical Values	Test Standard
	Temperature @ 70MPa (°C)	-7	ISO 1432

OIL & GAS INDUSTRY / RGD RESISTANT

# MATERIAL TEST DATA

TRP COMPOUND REFERENCE N<sup>o</sup>: F243 (page 2 of 2)

Polymer Type: \*Viton® Extreme

OIL & GAS INDUSTRY / RGD RESISTANT

AIR-AGEING	Property (after 168 hours @ 250°C)	Typical Values	Test Standard
	Hardness Change (°IRHD)	-1	ISO 188
	Tensile Change (%)	-13	ISO 188
	Elongation Change (%)	+18	ISO 188

ABSORPTION TEST	Property (after 168 hours @ 23°C)	Typical Values	Test Standard
	MEK		
	Volume Change (%)	+21	ISO 1817
	Tensile Change (%)	-45	ISO 1817
	Elongation Change (%)	-11	ISO 1817
	Hardness Change (°IRHD)	-16	ISO 1817
	Property (after 168 hours @ 100°C)	Typical Values	Test Standard
	Potassium Hydroxide 30% Solution in Water		
	Volume Change (%)	+2	ISO 1817
	Tensile Change (%)	-6	ISO 1817
	Elongation Change (%)	-2	ISO 1817
	Hardness Change (°IRHD)	-1	ISO 1817

The properties given on this data sheet is derived from tests carried out by TRP Polymer Solutions Ltd. They should not be regarded as specifications, but only as typical properties of the material described. It is intended for use by persons having technical skills and understanding of the seal and gasket design. Since the conditions of use are outside our control, nor have we designed the product shape, we can make no warranties, express or implied and assume no liability in connection with any use of this information.

Data Sheet	Page	Issue Date	Issue No.	Issue By
MD200	2 OF 2	25.11.13	1	NPM