

**MATERIAL** FPM GF-Type 75 Shore Black

**DESCRIPTION** Low compression set FKM 'GF' O ring grade  
 Terpolymer with 70% fluorine content  
 Cure system is peroxide

**APPLICATION** This material has excellent resistance to oils, fuels, lubricants, most mineral acids, aliphatic and aromatic hydrocarbons.

**TEMPERATURE** Low temperature service limit +23°F (-5°C)  
 Upper temperature continuous service limit +482°F (+250°C)

**PRODUCTS** Extrusions (cords/profiles/tubes)  
 Hot Vulcanised O rings  
 Moulding (custom/O rings)

### PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.90
Durometer shore A (slab)	ASTM D2240	78
Elongation % (Dumbbell)	ASTM D412	209
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	2799 (19.3)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	14.4
Low temperature TR-10°F (°C)*	ASTM D1329	10.4 (-12)

\*Nominal value based on a typical 75 shore vulcanizate

#### HEAT AGEING 70h @ 392°F (200°C) ASTM D573

Durometer change points shore A	+2
Elongation change %	-13
Tensile strength change Psi (Mpa)	-131 (-0.9)
Weight loss %	1.4

#### FLUID IMMERSION Oil No 3 70h @ 302°F (150°C) ASTM D471

Volume change %	+1.3
Durometer change points shore A	-2
Elongation change %	+25
Tensile strength change Psi (Mpa)	-29 (-0.2)

#### Information

The above information corresponds to our current knowledge and is offered solely to provide possible suggestions for your own experimentations. It is not intended to substitute any testing you may need to conduct to determine suitability of our products for your end use. Northern Engineering reserves the right to revise this information as new knowledge and experience becomes available. Northern Engineering makes no warranties and assumes no liability in connection with any use of the above information.