Perfluoroelastomer [FFKM]

Technical Data Sheet – FL3524

Product Description

Perfluoroelastomer is used when other elastomers are not an option. The material is resistant to extremely harsh chemicals and can endure very high temperatures.

General Temperature Range: -30°C to 240°C

Adheres to: ASTM D741, ISO 2781, ISO 868, ISO 37, ISO 395, ISO 1329

Standard Hardness (SHORE A): 75, 80, 90, 98

Available in Other Hardness as per client requirement

Used in the Nuclear, Aerospace, Defense, Harsh Chemicals applications. The formulation can be adjusted for FDA Compliance.

As a result of its exceptional performance, it is an expensive option.

Physical Properties [UOM]	Values
	75 Hardness
Hardness [Shore A] (ASTM D 2240)	75 ± 5
Tensile [MPa] (ASTM D412)	12
Elongation at Break [%] (ASTM D 412)	200
Specific Gravity [g/cm^3]	1.90
Compression Set [%] (ASTM D395 – B14) (70 Hours @ 200°C)	20%

Chemical/Substance Test parameters:

- MEK – 504 Hours at 40°C
- Ethylenediamine – 504 hours at 40°C
- Nitric Acid (60%) – 240 hours at 40°C
- Steam – 720 hours at 190°C

Tested as per ISO D471 against MEK (Butanone), Nitric Acid [60%], Steam, and Ethylenediamine. Updated 29.4.2023