

Material Profile: Superior® 301F FFKM

Superior® 301F was specifically developed as extremely clean unfilled perfluoroelastomer (FFKM) with excellent plasma resistance, minimal particulation and unrivaled compression set. This combination of properties allows Superior® 301F to be an excellent match for a wide range of CVD, Etch, metallization processes. It also has excellent chemical compatibility in a wide range of industrial applications.

Features and Benefits

- High temperature capabilities
- Excellent Plasma Resistance
- Minimal Particulation
- High Physical Properties
- Low Compression Set
- Wide chemical compatibility

Recommended Applications

- Deposition: LPCVD, CVD, APCVD
 HDPCVD, PECVD, RPCVD, SACVD
- Plasma Etch: Oxide and Metal
- Ashing
- Metallization: PVD, Sputtering and Evaporation
- Ion Implant
- RTP
- Oxidation
- Diffusion
- Lamp Anneal



Purple Perfluoroelastomer
 Service Temperature Range: -5 to 280° C

Typical Physical Properties



Color	Violet
Shore A Durometer	68
Tensile Strength, psi (MPa)	2243 (16.2)
Elongation	223%
Compression Set: 70 hrs at 200°C/ 260°C/ 300°C	16.8% / 14.4% / 17.1%
Service Temperature Range, °C (°F)	-5 to 280 (23 to 572)

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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