

3M™ Dyneon™ Perfluoroelastomer PFE E-21464

Perfluoroelastomer
3M Advanced Materials Division

Message:

The Dyneon Perfluoroelastomer compound E-21464 is a high temperature perfluoroelastomer specifically developed for the future needs of aerospace engine sealing. The product provides outstanding low long term compression set at high temperatures and is resistant to the HTS oils in use.

Special Features

- Proprietary 80 Shore A black compound
- Designed for highest temperature applications
- Continuous operating temperature of >300°C
- Outstanding low long term compression set
- Excellent resistance towards HTS oils
- High resistance against chemical fluids

Typical Applications

Finished parts based on 3M™ Dyneon™ Perfluoroelastomer compounds like PFE E-21464 are used for true high temperature applications in the aerospace and the chemical processing industry. Typical applications are aero engine sealing systems or gearbox seals.

| General Information | | | |
|------------------------------|-------------------------------|------|-------------|
| Features | Low compressive deformability | | |
| | Good chemical resistance | | |
| | Heat resistance, high | | |
| | Oil resistance | | |
| Uses | Aerospace applications | | |
| | Seals | | |
| Appearance | Black | | |
| Hardness | Nominal Value | | Test Method |
| Durometer Hardness (Shore A) | 80 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 8.80 | MPa | DIN 53504 |
| Tensile Strength | 10.3 | MPa | DIN 53504 |
| Tensile Elongation (Break) | 150 | % | DIN 53504 |
| Compression Set | | | ASTM D395B |
| 230°C, 70 hr ¹ | 14 | % | ASTM D395B |
| 316°C, 70 hr ² | 29 | % | ASTM D395B |
| NOTE | | | |
| 1. | 25% deflection | | |
| 2. | 18% deflection | | |

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