

Tecnoflon®



SOLVAY

asking more from chemistry®

Tecnoflon® PFR FFKM

for Sealing Applications

**SPECIALTY
POLYMERS**

Tecnoflon® PFR FFKM

Tecnoflon® PFR perfluoroelastomers deliver the highest performance of all elastomers, providing exceptional resistance to nearly every chemical class and, for selected grades, heat resistance over 300 °C.

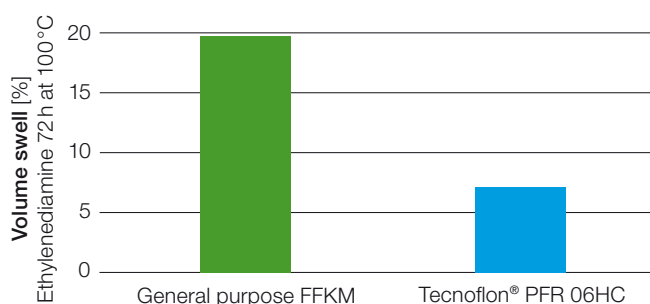
Thanks to Solvay's proprietary technologies, Tecnoflon® PFR FFKM shows:

- Outstanding processing behavior
- Improved mechanical & sealing properties
- The highest purity among all perfluoroelastomers

Our broad product portfolio includes Tecnoflon® PFR 94 and PFR 95 general purpose grades and market-specific grades, designed to meet stringent performance requirements for the Semiconductor, Chemical Processing and Oil & Gas industries.

Chemical Resistant Grades

Tecnoflon® PFR 06HC exhibits the highest chemical resistance among all perfluoroelastomers, specifically developed to withstand amines at high temperature.



High Temperature Resistant Grades

Tecnoflon® PFR 95HT uses Solvay's proprietary cross-linking agent and outperform triazine curable FFKM at high temperatures under water and steam.

Tecnoflon® PFR 95HT

Triazine curable FFKM

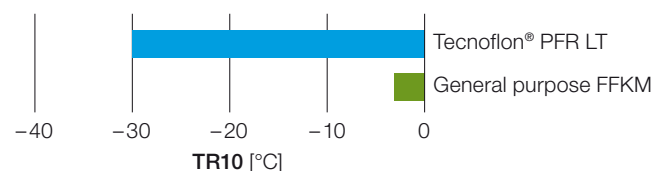


Effect of steam: 1 week @ 300 °C

Low Temperature Resistant Grades

Tecnoflon® PFR LT uses Solvay's proprietary MOVE monomer technology, which allows an outstanding chemical resistance together with unrivaled extended low temperature flexibility, showing a TR10 of -30 °C.

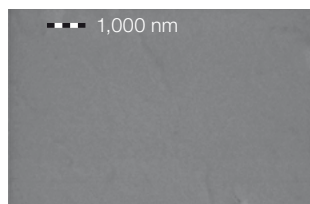
Minimum service temperature



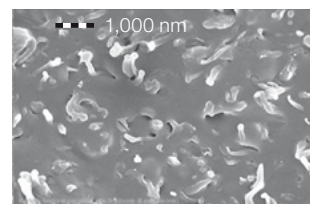
Nano-Organic Filled Grades

Tecnoflon® PFR 5920M and PFR 5910M have been specifically designed for the Semiconductor industry, to provide an alternative to mineral filled perfluoroelastomers. They use Solvay's proprietary co-coagulation technology, the only process that allows the incorporation of organic particles in the raw gum as small as 40 nm, the smallest in the market.

SEM pictures of O-ring cross section



Tecnoflon® PFR 5910M



Competitors' organic filled FFKM

Food Contact Grades

Some Tecnoflon® PFR grades are registered in the FDA Inventory of Effective Food Contact Substances (FCS) Notifications, being the subject of Food Contact Notifications (FCNs), namely:

Tecnoflon® PFR 94 (FCN # 128)

Tecnoflon® PFR 95 (FCN # 126)

Tecnoflon® PFR 95HT (FCN # 126)

The finished compounds are intended for repeated use in food processing equipments.

www.solvay.com

SpecialtyPolymers.EMEA@solvay.com | Europe, Middle East and Africa

SpecialtyPolymers.Americas@solvay.com | Americas

SpecialtyPolymers.Asia@solvay.com | Asia Pacific

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