Tecnoflon®

SOLVAY

asking more from chemistry®

Tecnoflon® FKM

Peroxide-Curable Fluoroelastomers for Improved Sealing and Processability

SPECIALTY POLYMERS

Tecnoflon® FKM
for Improved Sealing and Processability

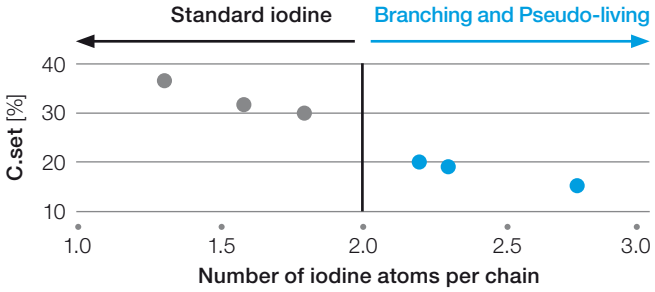
Tecnoflon® FKM peroxide-curable polymers are a broad family of sealing fluoroelastomers able to withstand the diverse range of extreme end-use environments found in the Automotive, Oil & Gas, Chemical Processing, Alternative Energy, Food and Pharma Industries.

Thanks to the Solvay's proprietary Branching and Pseudo-living Polymerization Technology, these high-performance materials offer:

- Outstanding processability
- Improved mechanical and sealing properties
- Broad service temperatures (from –50 °C to 230 °C)
- Best-in-class chemical resistance

Branching and Pseudo-living Polymerization Technology

Solvay's proprietary polymerization technology allows the creation of fluoroelastomers with a controlled macromolecular structure that imparts performance properties not obtainable by conventional techniques.



MOVE Monomer Technology

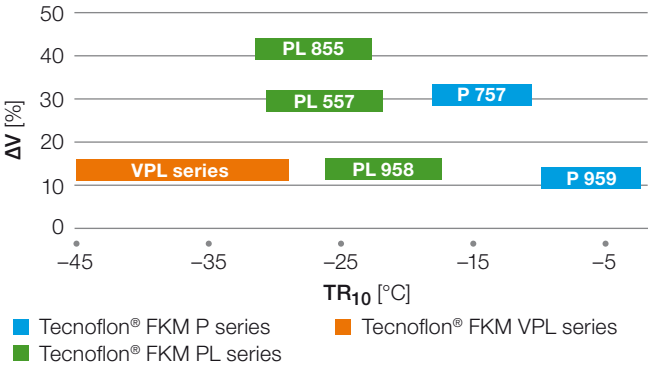
Tecnoflon® FKM products use Solvay's proprietary MOVE monomer technology to uniquely combine reliable low-temperature performance with the excellent chemical resistance of standard fluoroelastomers having high (70 %) fluorine content.

Product Families

Solvay offers the industry's broadest selection of peroxide-curable FKMs, which can be processed using compression, transfer, injection and extrusion molding technologies.

	Monomers	Fluorine Content	TR_{10} Rating
P: standard ter-polymer (D1418 FKM Type 2)	VDF, HFP, TFE	67 % to 70 %	–15 °C to –5 °C
PL: low temperature ter-polymer (D1418 FKM Type 3)	VDF, TFE, PAVE	65 % to 67 %	–30 °C to –24 °C
VPL: very low temperature	MOVE monomer added	65 % to 67 %	–45 °C to –30 °C
BR: base resistant grades (D1418 FKM Type 5) (ex: amines)	VDF, HFP, TFE, PAVE, Ethylene	64 % to 67 %	–14 °C to –6 °C, Resistant to base additives

Cold flexibility versus swelling in M15 at 23 °C



Automotive Applications

Thanks to their high performing properties, Tecnoflon® peroxide-curable fluoroelastomers can withstand the most stringent specifications for automotive.

- Turbo charger hoses
- EGR hoses
- Springless shaft seals
- Fuel lines
- Fuel injectors O-rings
- Intake manifold gaskets
- Transmission seals

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