

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

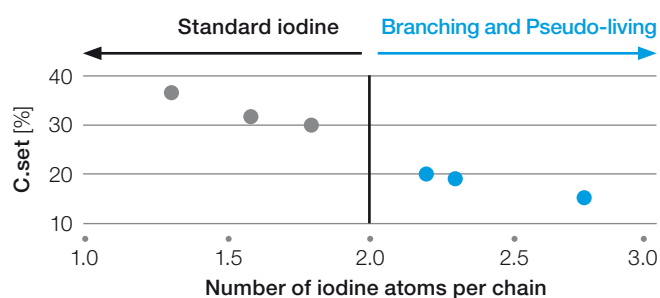
Tecnoflon® FKM peroxide-curable polymers are a broad family of sealing fluoroelastomers able to withstand the diverse range of extreme end-use environments found in the Automotive, Oil & Gas, Chemical Processing, Alternative Energy, Food and Pharma Industries.

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

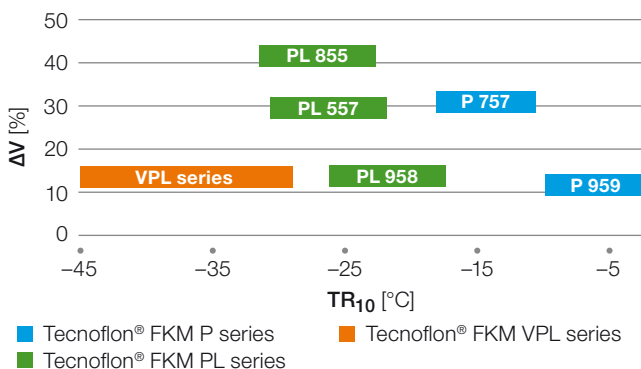
Tecnoflon® FKM products use Solvay's proprietary MOVE monomer technology to uniquely combine reliable low-temperature performance with the excellent chemical resistance of standard fluoroelastomers having high (70 %) fluorine content.

Product Families

Solvay offers the industry's broadest selection of peroxide-curable FKM's, 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

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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