

Tecnoflon®



SOLVAY

asking more from chemistry®

Tecnoflon® FKM

Bisphenol Curable

**SPECIALTY
POLYMERS**

Tecnoflon® FKM Bisphenol Curable

Tecnoflon® FKM are fluorocarbon synthetic rubbers with high fluorine content that provide best-in-class thermal and chemical performance among all other elastomers.

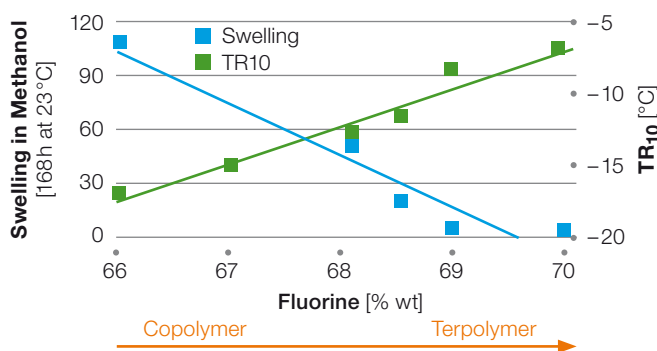
Tecnoflon® FKM bisphenol curable grades offer a very good choice of solutions delivering excellent processability and improved mechanical and sealing properties in the following markets:

- Automotive
- Oil & Gas
- Semiconductor
- Chemical Processing
- Food
- Pharma

Product Families

N: copolymer (D1418 FKM Type 1)	Monomers	VDF & HFP (66 % F)
	TR ₁₀ rating	-17 °C
	Curatives added	None
	Mooney viscosity at 121 °C	10 to 125 MU
T: terpolymer (D1418 FKM Type 2)	Monomers	VDF, HFP, and TFE (from 65 % to 70 % F)
	TR ₁₀ rating	-21 °C to -6 °C
	Curatives added	None
	Mooney viscosity at 121 °C	20 to 70 MU
FOR: Formulated grades (D1418 FKM Types 1 & 2)	Other	Improved chemical resistance
	Curatives added	By Solvay
	Other	Made from: N and T, customization for application and process

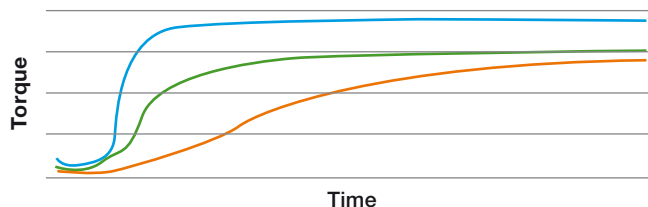
Cold flexibility and swelling in methanol versus fluorine content



Tecnoflon® FKM bisphenol curable grades are copolymers and terpolymers with a fluorine content range from 66 % to 70 % and are well suited for:

- O-rings: FOR 532, FOR 539
- Complex shape gaskets: FOR 531, FOR 5351/U
- Metal bonding: FOR 5312K, FOR 60K/U, FOR 7380K
- FDA compliant: FOR 4353 and FOR 7353

Typical MDR charts



- High crosslinking density, fast vulcanization, like O-rings grades
- Low crosslinking density, slow vulcanization, like complex shape gaskets grade

HS Series: Copolymers with Improved Thermal Stability

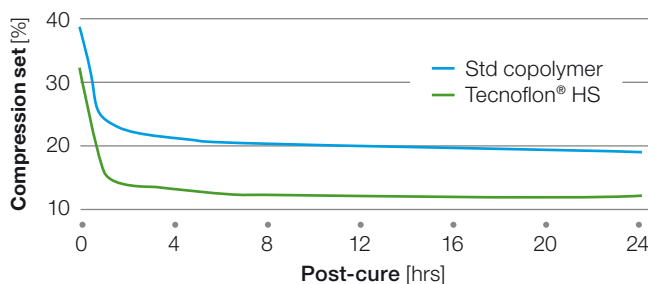
Tecnoflon® HS copolymers are designed for a low, post-cure cycle and high thermal rating. Cure-incorporated and rubber-to-metal bonding grades are available for all molding techniques thanks to the unique set of properties:

- Curable without calcium hydroxide
- Short post-curing time
- Lower hardness
- Improved C-set
- Higher thermal stability

Comparison between standard copolymers and HS series

Compression set at different post-curing time

- Improved sealing properties
- Very short post-curing time



Post-cure temperature: 250 °C

www.solvay.com

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

SpecialtyPolymers.Americas@solvay.com | Americas

SpecialtyPolymers.Asia@solvay.com | Asia Pacific



SOLVAY
asking more from chemistry®

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products. Neither Solvay Specialty Polymers nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Solvay's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Solvay's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. All trademarks and registered trademarks are property of the companies that comprise Solvay Group or their respective owners.

© 2014 Solvay Specialty Polymers. All rights reserved. D 10/2014 | Version 1.0 Brochure design by ahlersheinell.com