

Tecnoflon[®] P X647

Peroxide Curable Terpolymer

Tecnoflon[®] P X647 is a low viscosity, medium fluorine (67 %), peroxide curable fluoroelastomer. Tecnoflon[®] P X647 exhibits good chemical resistance to a wide variety of chemicals, coupled with good processability. Tecnoflon[®] P X647 can be cross-linked using organic peroxides in conjunction with a co-agent.

Some of the basic properties of Tecnoflon® P X647 are:

- Low post cure
- Superior mold flow
- Lack of mold fouling
- Excellent mold release
- Good chemical resistance
- High elongation at break
- Improved hot tear strength

Tecnoflon[®] P X647 can be used for injection and transfer molding of shaft seals, valve seals, O-rings, gaskets or any item requiring superior chemical resistance. Tecnoflon[®] P X647 can be combined with the cure system and other typical fluoroelastomer compounding ingredients. Mixing can be accomplished with two roll mills or internal mixers.

Tecnoflon[®] P X647 can be extruded into hoses or profiles and can be calendered to make sheet stocks or belting. Finished goods may be produced by a variety of rubber processing methods.

Handling and safety

Normal care and precautions should be taken to avoid skin contact, eye contact and breathing of fumes. Smoking is prohibited in working areas. Wash hands before eating or smoking. For complete health and safety information, please refer to the safety data sheet.

Basic characteristics of the raw polymer are as follows:

Typical Value	Unit	Test Method
33	MU	ASTM D1646
67	%	Solvay Internal Method – NMR
1.84	g/cm ³	ASTM D792
Translucent		
Slabs		
Ketones and esters		
	33 67 1.84 Translucent Slabs	67 % 1.84 g/cm ³ Translucent Slabs

Tecnoflon[®] P X647

Peroxide Curable Terpolymer

Typical properties

Test Compound	Typical Value	Unit	Test Method
Tecnoflon [®] P X647	100	phr	
Luperox [®] 101XL-45	3	phr	
Drimix® TAIC (75 %)	4	phr	
ZnO	5	phr	
N-990 MT Carbon Black	30	phr	

Property	Typical Value	Unit	Test Method
Mooney viscosity ML (1+10') at 121 °C	37	MU	ASTM D1646
MDR 6 min at 177°C arc 0.5°			ASTM D6601
Minimum torque	0.71	lb∙in	
Maximum torque	20.72	lb∙in	
t _{s2}	25	Sec	
t' ₅₀	34	sec	
t' ₉₀	47	sec	
Press cure: 3 min at 170 °C, post cure: 4 h at 230 °C			
100% Modulus	3.5	MPa	ASTM D412C
Tensile strength	20.5	MPa	
Elongation at break	305	%	
Hardness	73	ShoreA	ASTM D2240
Temperature retraction			ASTM D1329
TR ₁₀	- 15	°C	

www.solvay.com

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



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.