

Tecnoflon® P 457 fluoroelastomer

TECNOFLO® P 457 is a low viscosity, medium fluorine (67%), peroxide curable fluoroelastomer. Tecnoflon® P 457 exhibits superior resistance to a wide variety of chemicals, coupled with excellent processability, optimum compression set and good flexibility at low temperatures. Tecnoflon® P 457 can be cross-linked using organic peroxides in conjunction with a coagent. Tecnoflon® P 457 is a lower viscosity version of Tecnoflon® P 757: please refer to Tecnoflon® P 757 Technical data sheet for data on chemical resistance.

Some of the basic properties of TECNOFLO® P 457 are:

- Low post cure
- Superior mold flow
- Lack of mold fouling
- Excellent mold release
- Good chemical resistance

- Good stress relaxation
- Good metal bonding
- Good low temperature performance

Tecnoflon® P 457 can be used for injection and transfer molding of shaft seals, valve seals, Orings, gaskets or any item requiring superior chemical resistance.

Tecnoflon® P 457 can be combined with the cure system and other typical fluoroelastomer compounding ingredients. Mixing can be accomplished with two-roll mills or internal mixers.

This material 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.

[Click here for full datasheet.](#)

Tecnoflon® P 457

fluoroelastomer

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Features	<ul style="list-style-type: none"> • Bondability • Chemical Resistant • Crosslinkable • Good Flow • Good Mold Release 	<ul style="list-style-type: none"> • Good Processability • Low Compression Set • Low Temperature Flexibility • Low Viscosity
Uses	<ul style="list-style-type: none"> • Belts/Belt Repair • Blending • Gaskets • Hose • Low Temperature Applications 	<ul style="list-style-type: none"> • Metal Bonding • Profiles • Seals • Sheet • Valves/Valve Parts
Appearance	• Translucent	
Forms	• Slab	
Processing Method	<ul style="list-style-type: none"> • Calendering • Compounding • Extrusion 	<ul style="list-style-type: none"> • Injection Molding • Resin Transfer Molding

Physical

	Typical Value	Unit
Mooney Viscosity ¹ (ML 1+10, 121°C)	21	MU
Fluorine Content ¹	67	%

Notes

Typical properties: these are not to be construed as specifications.

¹ Raw polymer

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