Tecnoflon® P 459

fluoroelastomer

TECNOFLON® P 459 is a low viscosity, high fluorine (70%), peroxide curable fluoroelastomer. Tecnoflon® P 459 exhibits superior resistance to a wide variety of chemicals, coupled with excellent processability and optimum compression set. Tecnoflon® P 459 can be cross-linked using organic peroxides in conjunction with a co-agent. Tecnoflon® P 459 is a lower viscosity version of Tecnoflon® P 959: please refer to Tecnoflon® P 959 Technical data sheet for data on chemical resistance.

Some of the basic properties of TECNOFLON® P 459 are:

- Low post cure
- Superior mold flow
- Lack of mold fouling
- Excellent mold release
- Good chemical resistance especially in:
  - Alcohol containing fuels
  - Steam
  - Fluids containing amine additives

Tecnoflon® P 459 can be used for injection and transfer molding of shaft seals, valve seals, Orings, gaskets or any item requiring superior chemical resistance.

Tecnoflon® P 459 can be combined with the cure system and other typical fluoroelastomer compounding ingredients. Mixing can be accomplished with two-roll mills or internal mixers. Finished goods may be produced by a variety of rubber processing methods. This material can be extruded into hoses or profiles and can be calendered to make sheet stocks or belting.

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General		
Material Status	• Commercial: Active	
Availability	• Europe	• North America
Features	• Alcohol Resistant • Chemical Resistant • Crosslinkable • Fuel Resistant • Good Flow	• Good Mold Release • Good Processability • Low Compression Set • Low Viscosity • Steam Resistant
Uses	• Belts/Belt Repair • Blending • Gaskets • Hose	• Profiles • Seals • Sheet • Valves/Valve Parts
Appearance	• Translucent	
Forms	• Slab	
Processing Method	• Calendering • Compounding • Extrusion	• Injection Molding • Resin Transfer Molding

Physical	Typical Value	Unit
Mooney Viscosity [1] (ML 1+10, 121°C)	24	MU
Fluorine Content [1]	70	%

Notes

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

[1] Raw polymer