

Tecnoflon® P 457

fluoroelastomer

TECNOFLON® 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 TECNOFLON® 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.

General

| | | | |
|-------------------|--|--|---|
| Material Status | • Commercial: Active | | |
| Availability | • Europe | • North America | |
| Features | • Bondability • Crosslinkable • Good Chemical Resistance | • Good Flow • Good Mold Release • Good Processability | • Low Compression Set • Low Temperature Flexibility • Low Viscosity |
| Uses | • Belts/Belt Repair • Blending • Gaskets • Hose | • Low Temperature Applications • Metal Bonding • Profiles • Seals | • Sheet • Valves/Valve Parts |
| Appearance | • Translucent | | |
| Forms | • Slab | | |
| Processing Method | • Calendering • Compounding | • Extrusion • Injection Molding | • Resin Transfer Molding |

Physical

| | Typical Value | Unit | Test method |
|--|---------------|------|-------------|
| Mooney Viscosity ¹ (ML 1+10, 121°C) | 21 | MU | No Standard |
| Fluorine Content ¹ | 67 | % | No Standard |

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Notes

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

¹ Raw polymer

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