# 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.

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fluoroelastomer

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