

Tecnoflon® PL 455

Fluoroelastomer
Solvay Specialty Polymers

Message:

TECNOFLON® PL 455 is a new generation low temperature peroxide curable low viscosity fluoroelastomer with 64% wt fluorine content. Tecnoflon® PL 455 exhibits excellent low temperature flexibility (TR10 = -30°C). Like all other Tecnoflon® peroxide curable grades, it exhibits excellent processability; moreover it needs very short post-curing cycles.

Some of the basic properties of Tecnoflon® PL 455 are:

- Excellent low temperature flexibility
- Low post cure
- Superior mold flow
- Lack of mold fouling
- Excellent mold release

Tecnoflon® PL 455 can be used for injection, injection-compression and transfer molding of O-rings, gaskets and seals. Tecnoflon® PL 455 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 Information | |
|---------------------|------------------------------|
| Features | Fast Cure |
| | Good Flow |
| | Good Mold Release |
| | Good Processability |
| | Low Temperature Flexibility |
| | Low Viscosity |
| Uses | Belts/Belt Repair |
| | Blending |
| | Gaskets |
| | Hose |
| | Low Temperature Applications |
| | Profiles |
| | Seals |
| | Sheet |
| Appearance | Translucent |
| Forms | Slab |
| Processing Method | Calendering |
| | Compounding |
| | Compression Molding |
| | Extrusion |
| | Injection Molding |
| | Resin Transfer Molding |

| Physical | Nominal Value | Unit |
|--|---------------|------|
| Mooney Viscosity ¹ (ML 1+10, 121°C) | 19 | MU |
| Fluorine Content ² | 64 | % |
| NOTE | | |
| 1. | Raw polymer | |
| 2. | Raw polymer | |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

