

## Tecnoflon® PL 455 fluoroelastomer

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.

[Click here for full datasheet.](#)

# Tecnoflon® PL 455

fluoroelastomer

## General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
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

	Typical Value	Unit
Mooney Viscosity <sup>1</sup> (ML 1+10, 121°C)	19	MU
Fluorine Content <sup>1</sup>	64	%

### Notes

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

<sup>1</sup> Raw polymer

# Tecnoflon® PL 455

fluoroelastomer

---

---

**[www.solvay.com](http://www.solvay.com)**

[SpecialtyPolymers.EMEA@solvay.com](mailto:SpecialtyPolymers.EMEA@solvay.com) | Europe, Middle East and Africa

[SpecialtyPolymers.Americas@solvay.com](mailto:SpecialtyPolymers.Americas@solvay.com) | Americas

[SpecialtyPolymers.Asia@solvay.com](mailto:SpecialtyPolymers.Asia@solvay.com) | Asia and Australia

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

Neither Solvay Specialty Polymers nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Solvay's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Solvay's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Solvay Group or their respective owners.

© 2020 Solvay Specialty Polymers. All rights reserved.

