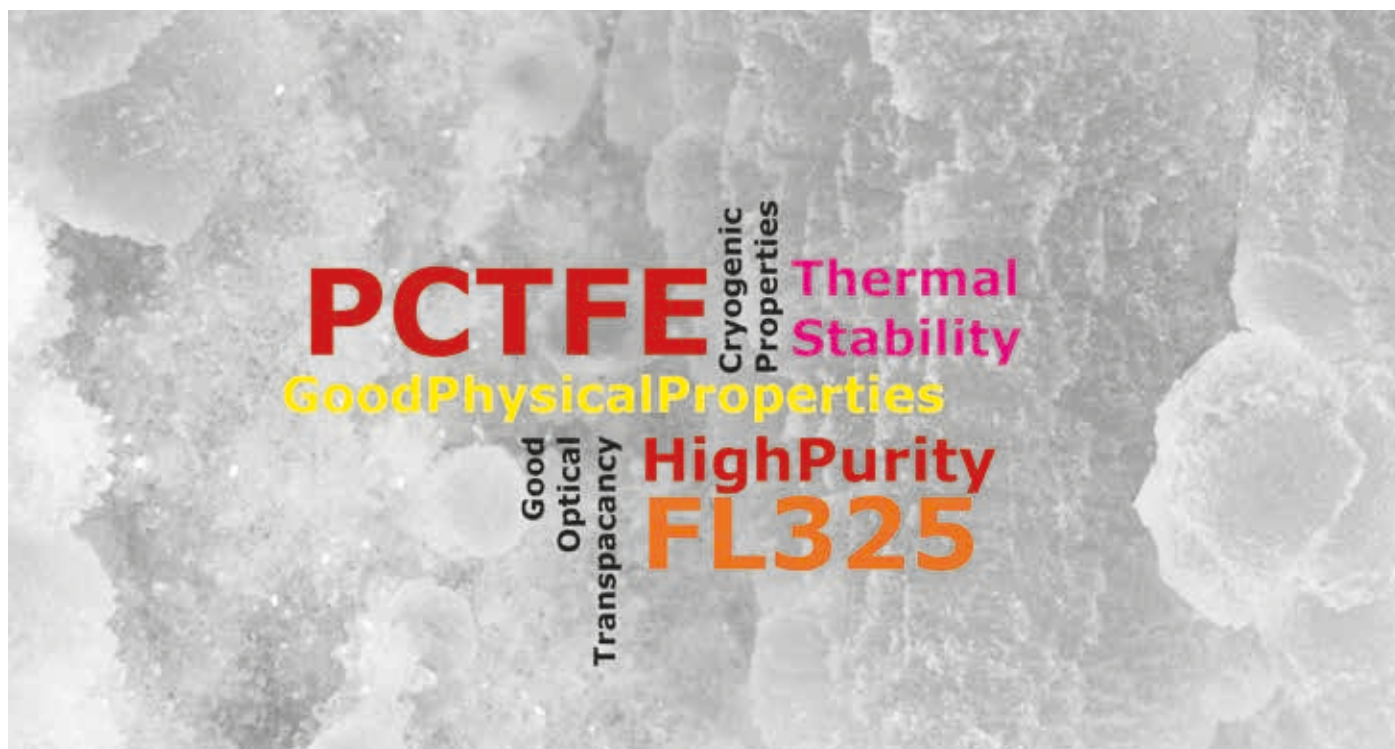




**FLUOROCARBON**

Fluorinoid® Fluoroglide® Fluoroetch® Fluoroflex® F-LON®



## MATERIAL REFERENCE – FLUORINOID® FL325

DESCRIPTION- VIRGIN PCTFE

FORMULATION- 100% PCTFE

Fluorinoid® **FL325 PCTFE** is a homopolymer of chlorotrifluoroethylene. The addition of a chlorine bond contributes to lower the melt viscosity, which permits extrusion, compression moulding and injection moulding. It also contributes to the transparency, the exceptional flow resistance and the rigidity characteristics of the polymer. Fluorine is responsible for its chemical inertness and effectively zero moisture absorption.

### TYPICAL APPLICATIONS

An engineering thermoplastic with good thermal stability, good chemical resistance, very good physical properties, optical transparency and capable of being used at low temperatures and under radiation conditions.

### CATEGORIES

- Cryogenic valve seats
- High pressure gas seats and seals
- Semi-conductor process components such a wafer boats
- Sight Glasses and windows
- Electrical components
- High Vacuum plant





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## AT FLUOROCARBON

We manufacture PCTFE semi-finished products including rod, tube and sheet by extrusion and compression moulding.

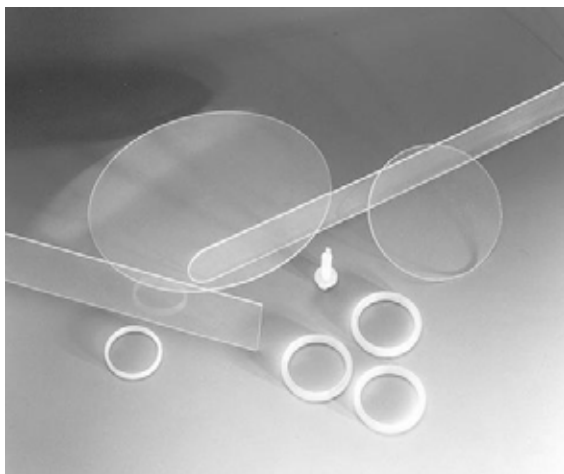
In addition to this we machine and mould finished components for a range of industries including Aerospace, Semi-conductor, Petrochemical and Oil and Gas.

We ensure the highest quality materials by conducting zero strength time (ASTM D1430) and mechanical property testing (ASTM D638).

	298K (25°C)	144K (-129°C)	21K (-252°C)
Specific Gravity (ASTM D792)	2.10-2.17		
Tensile Strength Mpa (ASTM D638)	39**	150	200
Elongation % (ASTM D638)	>20	9	5
Zero strength time moulded sec	>200		
Zero strength time extruded sec	>100		
Max continuous temperature*	150°C		
Melting point	210°C		

\*Please contact us for advice on maximum working temperatures for your applications

\*\*Extrusion grade



## BENEFICIAL PROPERTIES

- Cryogenic applications
- Excellent resistance to cold flow
- Dimensional stability through a wide temperature range
- Rigidity
- Extremely low gas permeability
- Extremely low moisture absorption
- FDA Approved
- Good transparency

## OUR CAPACITY AND CAPABILITY

- Moulded tube up to 1250mm (50") dia
- Moulded rod up to 300mm (12") dia
- Extruded tube up to 100mm (4") dia
- Extruded rod up to 100mm (4") dia
- Moulded sheet up to 500mm x 500mm x 35mm (20" x 20" x 1.5")

**Fluorocarbon Group**  
 Tel: +44 (0) 845 2505 100  
 Fax: +44 (0) 845 2505 101  
 Email: [info@fluorocarbon.co.uk](mailto:info@fluorocarbon.co.uk)  
 Web: [www.fluorocarbon.co.uk](http://www.fluorocarbon.co.uk)

