

# Crossflon® XF225 - Technical Data

Crossflon® XF225 is an enhanced form of PTFE, which offers substantially improved performance over the materials traditionally used in the manufacture of skidway plates and slide bearings, namely virgin and 25% glass fibre filled PTFE.

As the technical data shows, Crossflon® XF225 can accommodate significantly higher pressure than 25% glass fibre filled PTFE and yet has coefficient of friction values which are comparable with those of virgin PTFE.

MATERIAL COMPARISON TABLE			
MATERIAL	VIRGIN PTFE	25% GLASS FIBRE FILLED PTFE	CROSSFLON® XF225
DESCRIPTION	A PTFE material that has a low coefficient of friction and high chemical inertness. Suitable for a very wide range of applications that require these characteristics.	A reinforced PTFE material that has high compressive rigidity, low cold flow, high wear resistance and good chemical resistance. For use in most applications involving sealing and bearing.	A reinforced PTFE material that has a low coefficient of friction, high creep resistance, high load bearing capacity and high wear resistance. Specifically developed for skidway and slide bearing applications.
TYPICAL PROPERTIES			
Operating Temperature Range (Continuous Service)	-250°C to +260°C	-250°C to +260°C	-250°C to +260°C
Compressive Strength (ASTM D695) 1 % Strain 5 % Strain 0.2 % Offset	4.0 MPa 11.5 MPa 9.0 MPa	6.2 MPa 16.5 MPa 12.3 MPa	10.8 MPa 30.0 MPa 18.2 MPa
Maximum Pressure (P) Non-recessed Design Maximum Pressure (P) Recessed Design	Up to 6.9 MPa Up to 13.7 MPa	Up to 13.7 MPa Up to 27.5 MPa	Up to 18 MPa Up to 50 MPa
Static Coefficient of Friction (BCL Method)	0.04 - 0.06	0.11 - 0.19	0.04 - 0.08