

MC402 High Purity PFA

ASTM D3307-06 type II

Material Datasheet • Issue 4 • Sep 2017

Material

High Purity PFA
ASTM D3307-06 type II.

Description

- Pfa (Perfluoroalkoxy)
- Fluoropolymer translucent virgin grade
- FDA compliant 21 CFR 177.1550§ (a) (1) and (b) as finished articles
- US Pharmacopeia (USP) Class VI

Application

This material has excellent chemical inertness, heat resistance and low coefficient of friction.

Temperature

- Low temperature service limit -418°F (-250°C).
- Upper temperature continuous service limit 500°F (+260°C).

Products

Jacket material for our range of Encapsulated O Rings

Approvals

- This grade of material is compliant with US FDA regulation 21 CFR 177.1550 § (a) (1) and (b) as finished articles & European regulations EC1935/2004.
- 3-A Sanitary Standards for multiple-use plastic materials used as product contact surfaces for dairy equipment number 20-27.
- US Pharmacopeia (USP) Class VI at 121°C for one hour.

Physical Properties

General	Standard	Typical Values
Specific Gravity	ASTM D792	2.15
Hardness shore D	ASTM D2240	55
Elongation % 23°C 250°C	AS TM D3307	300 500
Tensile strength 23°C PSI (MPa) 250°C PSI (MPa)	ASTM D3307	4061 (28) 1740 (12)
Flexural modulus 23°C PSI (MPa) 250°C PSI (MPa)	ASTM D790	90648 (625) 9572 (66)



Thermal	Standard	Typical Values
Melting point °F (°C)	DTA-E168	575 (306)
Coefficient of linear thermal expansion (21-100°C) mm/mm/°C (150 – 200°C) mm/mm/°C	D696	140 . 10-6 220 . 10-6

Information

The above information corresponds to our current knowledge and is offered solely to provide possible suggestions for your own experimentations. It is not intended to substitute any testing you may need to conduct to determine suitability of our products for your end use.

Northern Engineering reserves the right to revise this information as new knowledge and experience becomes available. Northern Engineering makes no warranties and assumes no liability in connection with any use of the above information.



NES Sheffield is the Integrated Polymer Solutions European HQ

Northern Engineering (Sheffield) Limited, Haigh Moor Drive,
Brooklands Park, Sheffield, UK, S25 2JY

Tel: +44 (0) 1909 560 203

Fax: +44 (0) 1909 560 184

Email: info@nes-ips.com

Web: www.nes-ips.com

