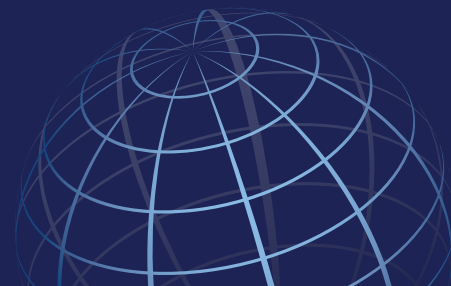




Material Data Sheet

MC402 High Purity PFA



Jun-2020

Revision: 7

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 & European regulations EC1935/2004 US Pharmacopeia (USP Class VI) 3-A Sanitary Standards for multiple-use plastic materials used as product contact surfaces for dairy equipment 20-27
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 Encapsulated Seals

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D792	2.15
Hardness shore D	ASTM D2240	55
Elongation % (23°C)	ASTM D3307	300
(250°C)		500
Tensile strength Psi	ASTM D3307	
23°C PSI (Mpa)		4061 (28)
250°C PSI (Mpa)		1740 (12)
Flexural Modulus	ASTM D790	
23°C PSI (Mpa)		90648 (625)
250°C PSI (Mpa)		9572 (66)
THERMAL	STANDARD	TYPICAL VALUES
Melting point °F (°C)	DTA-E168	575 (306)
Coefficient of linear thermal expansion	D696	
(21 - 100°C) mm/mm/°C		140 . 10-6
(150 - 200°C) mm/mm/°C		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.



An INTEGRATED POLYMER SOLUTIONS Company

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: sales@nes-ips.com
 Web: www.nes-ips.com