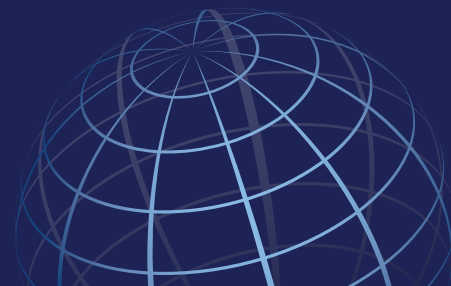




# Material Data Sheet

## MC402 High Purity PFA



Jul-2024 Revision: 9

<b>MATERIAL</b>	High Purity PFA ASTM D3307-06 Type II
<b>DESCRIPTION</b>	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 Meets EN10/2011 This compound has been tested following the standard (EC) 1935/2004 and according to (EU) 10/2011
<b>APPLICATION</b>	This material has excellent chemical inertness, heat resistance and low coefficient of friction.
<b>TEMPERATURE</b>	Low temperature service limit -418°F (-250°C) Upper temperature continuous service limit +500°F (+260°C)
<b>PRODUCTS</b>	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 x 10 <sup>-6</sup>
(150 - 200°C) mm/mm/°C		220 x 10 <sup>-6</sup>

#### 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.