Material Data Sheet
MC402 High Purity PFA

Jul-2024 Revision: 9

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 mulitple-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

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}

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