



MATERIAL	FEP ASTM D2116-02 Type IV
DESCRIPTION	FEP (Fluorinated Ethylene Propylene) Fluoropolymer translucent virgin grade FDA compliant 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 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 +399°F (+204°C)
PRODUCTS	Jacket material for our Encapsulated Seals

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D792	2.15
Hardness shore D (slab)	ASTM D2240	55
Elongation % (23°C)	ASTM D638	300
Tensile strength PSI (MPa) (Dumbbell)	ASTM D638	4350 (30)
Flexural Modulus PSI (MPa) (Dumbbell)	ASTM D790	95065 (655)
MIT folding endurance (0.18-0.20mm film)	ASTM D2176	80,000
THERMAL	STANDARD	TYPICAL VALUES
Melting point °F (°C)	D2116	490 (255)
Coefficient of linear thermal expansion (38 - 70°C)	D696	10 ⁻⁵ /K
ENVIRONMENTAL		
Water absorption % 24 hours	D570	<0.01
Weathering		Excellent

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.