



Material Data Sheet

Material	High Purity PFA ASTM D3307-type V	MC228
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Description	Pfa (perfluoroalkoxy) Fluoropolymer translucent virgin grade This grade of material is compliant with US FDA regulation 21 CFR 177.1550 § (a) (1) and (b) as finished articles.	
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Application	This material has excellent chemical inertness, heat resistance and low coefficient of friction	
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Temperature	Low temperature service limit -76F (-60 C). Upper temperature continuous service limit 500F (+260 C).	
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Products	Jacket material for our range of Encapsulated O Rings & Gaskets	
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Physical Properties		
General		
Specific Gravity	ASTM D792	2.15
Hardness shore D	ASTM D2240	55
Elongation % 23C	ASTM D638	300
250C		500
Tensile strength 23C PSI (Mpa)	ASTM D638	4063(28)
250C PSI (Mpa)		1741(12)
Flexural modulus 23C PSI (Mpa)	ASTM D790	90711(625)
250C PSI (Mpa)		100145(69)
MIT folding endurance (0.18-0.20mm film) cycles	ASTM 2176	200,000
Thermal		
Melting point F (C)	D2116	580-590 (302-310)
Coefficient of linear thermal expansion	D696	
(21-100C) K ⁻¹		140.10 ⁻⁶
(100-150C) K ⁻¹		180.10 ⁻⁶
(150-200C) K ⁻¹		200.10 ⁻⁶
Environmental		
Water absorption % 24 hrs	D570	< 0,03
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.