



Material Data Sheet

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Material	Genuine Teflon® FEP	MC227
Description	Du Pont Teflon Fep (fluorinated ethylene propylene) Fluoropolymer translucent virgin grade	
Application	This material has excellent chemical inertness, heat resistance and low coefficient of friction	
Temperature	Low temperature service limit -76F (-60 C). Upper temperature continuous service limit +428F (+204 C).	
Products	Jacket material for our range of Teflon Encapsulated O Rings	

Physical Properties

General

Specific Gravity	ASTM D792	2.15
Hardness shore D (slab)	ASTM D2240	55
Elongation %	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

Melting point F ©	D2116	490(255)
Coefficient of linear thermal expansion 100 – 160F (38-71 C)	D696	10-5 K ⁻¹

Environmental

Water absorption % 24 Hrs	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.

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