



Material Data Sheet

Material	FEP ASTM D2116-95a	MC227
Description	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 Encapsulated O Rings	
Approvals	This grade of material is compliant with US FDA regulation 21 CFR 177.1550 § (a) (1) and (b) as finished articles. 3-A Sanitary Standards for Multiple-Use Plastic Materials Used as Product Contact Surfaces for Dairy Equipment Number 20-17. US Pharmacopeia (USP) Class V1	

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

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