

## **Material Data Sheet**

Material	FEP ASTM D2116-02 type IV	/IC401
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 & Euroregulations EC1935/2004 3-A Sanitary Standards for Multiple-Use Plastic Materials UP Product Contact Surfaces for Dairy Equipment Number 20-US Pharmacopeia (USP) Class VI	sed as

Physical Properties		
General Specific Gravity Hardness shore D (slab) Elongation % Tensile strength Psi (Mpa) (Dumbbell)	ASTM D792 ASTM D2240 ASTM D638 ASTM D638	2.15 55 300 4350(30)
Flexural modulus Psi (Mpa) (Dumbbell) MIT folding endurance (0.18-0.20mm film)	ASTM D790 ASTM D2176	95065(655) 80,000
Thermal Melting point F © Coefficient of linear thermal expansion 100 − 160F (38-71 C)	D2116 D696	490(255) 10 <sup>-</sup> 5 K <sup>-</sup> 1
Environmental Water absorption % 24 Hrs Weathering	D570	< 0.01 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. Philippe Jans reserves the right to revise this information as new knowledge and experience becomes available. Philippe Jans makes no warranties and assumes no liability in connection with any use of the above information.