

Property	ASTM test method	FluoroPro52 (PTFE) Molybdenum disulphide added	FluoroProRR (PFA)	FluoroPro40 (FEP)
Mechanical Properties				
Tensile Strength (kgf/cm ²)	D638/23 C	250	290	200
Elongation (%)	D638/23 C	300	290	275
Compression Strength (kgf/cm ²)	D695/1% deformation, 25 C	70	55	55
Hexural Modulus (kgf/cm ²)	D790/23 C	10,000	6800	6000
Hardness (Shore)	Durometer	D75 *	D60	D55
Deformation (%)	D621/25 C 140kgf/cm ² 24hr	9.0 *	2.7	3.0
Static Friction Coefficient	Coated Steel	0.2	0.5	0.5
Chemical Prop.		Inert	Inert	Inert
Water Absorption		<.01%	<.03%	<.01%
Thermal Properties				
Coefficient of linear thermal expansion (1/C)	D669/23 -60 C	10 x 10 ⁻⁵	12 x 10 ⁻⁵	9.4 x 10 ⁻⁵
Melting Point (C)/(F)		327/621	306/583	270/518
Maximum temperature continuous (C)/(F)		260/500	260/500	150/392
Electrical Properties				
Dielectric dissipation strength (V/ml)	D150/10000Hz D150/10 x 10 ⁷ Hz	<1 x 10 ⁻⁵ 2 x 10 ⁻⁵	<1 x 10 ⁻⁵ 3 x 10 ⁻⁵	<6 x 10 ⁻⁵ 5 x 10 ⁻⁵
Dielectric constant	D150/10000Hz	2.1	2.1	2.1

- With MoS2 other added components not included.
- This Chart is to be used as a comparative guide only
- Information gathered from multiple sources (suppliers/ third party testing/inhouse testing)