

Material Data Sheet

FEP

FEP is a copolymer of tetrafluoroethylene and hexafluoropropylene.			
Physical properties			
Density(Specific Gravity)	ASTM D-792	g/cm ³ (gm / cc)	2.14~2.17
Water Absorption(Max.)	ASTM D-570	%	< 0.01
Flammability		-	V-0
Mechanical properties			
Tensile Strength	JIS K 6891	mpa	19.6~34.3
Elongation of Break	JIS K 6891	%	300 - 400
Tensile Modulus	ASTM D638	MPa	(4.4 – 5.4) × 10 ²
Flexural Strength	ASTM D790	—	No break
Flexural Modulus	ASTM D790	MPa	(5.4 – 6.4) × 10 ²
Compressive Strength (1% Deformation)	ASTM D695	MPa	3.9 – 4.9
Compressive Strength (25% Deformation)	ASTM D695	MPa	27.5 – 30.4
Compressive Modulus	ASTM D695	MPa	(4.4 – 5.4) × 10 ²
Hardness	Durometer	Shore D	D55 – D65
Creep Deformation (25°C, 13.7 MPa, 24h)	ASTM D621	%	2.5 – 3.5
Creep Deformation (100°C, 6.9 MPa, 24h)	ASTM D621	%	4.5 – 5.5
Total Deformation (25°C, 13.7 MPa, 24h)	ASTM D621	%	8.0 – 9.0
Total Deformation (100°C, 6.9 MPa, 24h)	ASTM D621	%	12.0 – 14.0
Thermal Properties			
Melt Viscosity at 380°C	—	poise	(1.5 – 60) × 10 ⁴
Specific Heat	—	J/kg.°C	1.2 × 10 ³
Melting Point	D.S.C	°C	265 – 275
Thermal Conductivity	ASTM C177	W/m.°C	0.2
Thermal Expansion (-50°C ~ +100°C)	ASTM D696	1/°C	(8 – 15) × 10 ⁻⁵
NOTE:			
*The data stated above are typical values intended for reference and comparison purposes only.			
*The data should not be used as a basis for design specifications or quality control.			
*The information is provided as a guide to the best of our knowledge and given without obligation or liability.			
*Testing under individual application circumstances is recommended.			

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Please note that cut-to-size items **cannot be returned**.