



**Teflon® FEP** is a powder coating, flat black, that represents a new level of technology. This powder coating combines fluroploymers and other resins homogeneously, such that each individual particle contains the proper blend of ingredients.

**Teflon® FEP** has superior toughness, coupled with properties from other liquid Teflon-S® coatings: excellent corrosion resistance and good dry lubrication properties.

# Additional Information:

## **Recommended Services:**

- CO<sub>2</sub> (WAG) environments
- Oil / water / gas production
- Salt water disposal (SWD)
- Flow lines fittings
- Valves, ESP stages

#### **Benefits:**

- Excellent flexibility
- Excellent corrosion resistance
- Superior toughness
- Excellent adhesion

### **Characteristics:**

• Color: Matt Black

• Generic type: FEP

• Primer: None

• Operating temperatures: 300°F (148°C)

• Thickness: 3-5 dry mils



# **Typical Engineering Properties**

Property	ASTM Method	Unit	Teflon® FEP
Non-Stick	none		Excellent
Abrasion Resistance	none		Good
Chemical Resistance	none		Excellent
Max Use Temperature		°F	300
Continuous		°C	150
Intermittent		°F	350
		°C	177
		°F	500
Melting Point	D3418	°C	260
Specific Gravity	D792		2.15
		Static	.1220
Coefficient of Friction	D1894	Dynamic	.0830
Hardness	D2240	Shore D	56
Tensile Strength	D638	Мра	23
Elongation	D638	%	325
Flexural Modulus	D790	Мра	600
Thermal Conductivity		see note 1	1.4
Dielectric Strength	D149	V/µm	53
Dielectric Constant	D150	1 MHz	2.1
Arc Resistance	D495	sec	>300
Volume Resistivity	D257	ohm-cm	>10 18
Surface Resistivity	D257	ohm/sq.	>10 <sup>16</sup>
•		years	
Weather Resistance	Florida Exposure	unaffected	20
Water Absorption	D570	%	<.01
Contact Angle		water °	95-105

note 1: thermal conductivity units =  $(BTU)(in) / (ft^2)(hr)(deg F)$ 

<sup>\*</sup>These test results are presented as simulated conditions and should be used as guidelines only; they are not intended for warranty serviceability.