

PC-702

PRODUCT SPECIFICATIONS



PC-702 is a finely divided powdered form of polyphenylene sulfide which possesses high molecular weight and high melt flow. PC-702 is a high temperature, non-stick, corrosion resistant coating when fused and cured (cross-linking and chain extension) at temperatures from 316°C to 427°C. It complies with RoHS. The coating is inherently flame retardant and offers chemical resistance comparable to PEEK fluoropolymers.

PC-702 is a high-performance PPS powder, designed to protect steel parts used in multiple applications in the oil and gas industry. Its superior flexibility, corrosion resistance, heat resistance and thin mil application allows for parts to be coated through the body as well as make up areas. PC-702's versatility makes it an excellent choice for protecting steel parts (valves & fittings) and lowering operating expenses.

Additional Information:

Recommended Services:

- CO₂ injection (WAG)
- Oil / water / gas production
- Salt water disposal (SWD)
- Gas production
- Brine water remediation

Benefits:

- Excellent flexibility
- Excellent temperature resistance
- Excellent corrosion resistance
- Excellent adhesion

Characteristics:

- Color: Dark Brown
- Generic type: Polyphenylene Sulfide (PPS)
- Operating temperatures: 400°F (204°C)
- Thickness: 1-7 dry mils

Technical Specifications:

- Hardness : ASTM D-785 Rockwell 120
- Elongation : ASTM D-522 > 32
- Abrasion Resistance : Taber mg. Loss 1000 rev: CS-17 wheel - 50

Coating Capabilities:

- Fittings
- Valves
- Manifolds / spools
- Downhole tools



Typical Engineering Properties of PC-702

Property	ASTM	Value
Tensile Strength Ksi	D-638	10.00
Elongation, %age	D-638	1.5
Flexural Strength, Ksi	D-790	14.0
Compressive Strength, Ksi	D-695	16.0
Heat Deflection temperature 264 °F**	D-648	250
Coefficient of Linear Thermal Expansion, x 10 ⁻⁶ m/m/°C	E-831	50
Rockwell Hardness	D-785	R120
Abrasion Resistance - Taber CS-17 Wheel (mg loss)	D-4060	50

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