



## NPR-1701 CIPP Medium Diameter Epoxy System

NPR-1701 is a corrosion and chemical resistant, heat or ambient curable, high modulus epoxy resin, designed to suit the special handling requirements of cured-in-place rehabilitation. The resin has a medium initial cure time with good cure in the presence of moisture. Fast wet-out, high thixotropy, extremely low odor, zero VOC, and 100% solids makes NPR-1701 ideal for high efficiency production. Color is light red after mixing. Suitable for impregnation of PET liners

### Typical Physical Properties

<b>Mix Ratio (Resin/Hardener)</b>	<b>1 to 1 By Weight</b>
<b>Initial Cure Time, 100 Grams @ 77°F (25°C)</b>	<b>2 Hours</b>
Specific Gravity (resin)	1.16 – 1.18 G/ml
Weight per Gallon (resin)	9.7 – 9.8 Lbs
Specific Gravity (hardener)	1.45 – 1.51 G/ml
Weight per Gallon (hardener)	12.2 – 12.5 Lbs
Weight Per Gallon (mixture)	10.9 – 11.2
Viscosity Resin at 20 rpm	12,000 – 15,000 cPs
Viscosity Hardener at 20 rpm	35,000 – 45,000 cPs
Viscosity Mixture at 20 rpm	6,000 – 9,000 cPs
Flexural Modulus (ASTM D-790)*	<500,000 psi
Flexural Strength (ASTM D-790)*	<7,000 psi
Tensile Elongation*	1.5%
Tensile Strength (ASTM D-638)*	<5,000 psi
Young Modulus*	<450,000 psi
Shore D Hardness (ASTM D-4541-95e1)*	<85

\*Properties were measured for 3 mm PET felt laminate cured at 140°F (60°C) for 4 hr.