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TECHNICAL DATA SHEET

InTech 81-10

InTech 81-10 is a bisphenol-A vinyl ester resin for cured-in-place-pipe applications. This resin is used in corrosion applications where the pH is greater than 12. Resins manufactured for Inliner meeting these specifications are: Ashland's Hetron[®] Q 6405 (hybrid of HETRON 922), Interplastic's COR VE8190, AOC's Vipel[®] L010PPC, and Reichhold's Atlac[®] 580-20.

TECHNICAL DATA

TYPICAL LIQUID RESIN PROPERTIES

Viscosity, Brookfield Model RV @ 77°F (25°C) #4 spindle @ 20 rpm, cps	2000 – 4000
Thixotropic Index	2.9 - 3.9
Gel Time, 150°F (66°C), 100 gram sample (1.0 % perk 16, 0.5 % Trig C), min:sec	10:00 – 20:00
Gel to Peak Exotherm Time, 150°F (66°C), min:sec	3:00 –10:00
Non-Volatile, %	58 – 66
Gel Time @ 77°F, hours	> 24
Specific Gravity	1.05 - 1.08

TYPICAL PROPERTIES OF A 1/8 INCH (3.2 MM) THICK CLEAR CASTING

Flexural Strength, ASTM D-790	19,100 psi	132 MPa
Flexural Modulus, ASTM D-790	4.7 x 10 ⁵ psi	3241 MPa
Tensile Strength, ASTM D-638	11,000 psi	76 MPa
Tensile Modulus, ASTM D-638	4.6 x 10 ⁵ psi	3172 MPa
Tensile Elongation, ASTM D-638	4.2 %	4.2 %
Heat Distortion, ASTM D-648	215 °F	102 °C

TYPICAL PROPERTIES OF A 1/4 INCH (6 MM) THICK FELT LAMINATE

Flexural Strength, ASTM D 790	11,000 psi	76 MPa
Flexural Modulus, ASTM D 790	5.0 x 10 ⁵ psi	3500 Mpa
Tensile Strength, ASTM D 638	6800 Psi	47 Mpa
Tensile Modulus, ASTM D 638	5.0 x 10 ⁵ psi	3500 Mpa
Tensile Elongation, ASTM D 638	2.00 %	2.00 %
Heat Distortion Temperature, ASTM D 638	197 °F	92 °C



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Date: March 1, 2002