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TECHNICAL DATA SHEET – InTech 81-10 Vinyl Ester Resin

InTech 81-10 is a promoted, thixotropic, rigid, corrosion resistant, vinyl ester resin. It is specifically formulated to resist various chemical solutions, as well as municipal sewage and water when manufactured according to cured-in-place techniques for the relining of pipes. This resin has been tested and has passed the requirements for retention of physical properties and weight gain when exposed to corrosive media to ASTM test procedures C-581, D-5813 and F-1216. It has also been tested according to ASTM D-2990 for Flexural Creep. Data on these tests and any corrosion recommendations will be supplied upon request. Resins manufacturers for Inliner meeting this specification are as follows: AOC LLC, Ashland Specialty Chemical Company, Interplastic Corporation and Reichhold Inc.

TECHNICAL DATA

LIQUID RESIN PROPERTIES

| | |
|--|-------------|
| Viscosity, Brookfield Model RV @ 77°F (25°C), #4 spindle @ 20 rpm, cps | 3,000-5,000 |
| Thixotropic Index | 3.0 – 4.5 |
| Gel time run in a 140°F (60°C) water bath, catalyzed with 0.1 phr of Perkadox 16 and 0.5 phr of Trigonox 42S, minutes | 15-25 |
| Stability at: 72°F (22.0°C) | ≥ 24 hours |
| Non-Volatile, % | 58 – 66 |
| Specific Gravity | 1.05 – 1.08 |

TYPICAL PROPERTIES OF A 6 MM FELT LAMINATE

| | | |
|--------------------------------------|-------------|-----------|
| Flexural Strength, ASTM D-790 | 11,000 psi | 76 MPa |
| Flexural Modulus, ASTM D-790 | 530,000 psi | 3,654 MPa |
| Tensile Strength, ASTM D-638 | 6,600 psi | 46 MPa |
| Tensile Modulus, ASTM D-638 | 530,000 psi | 3,654 MPa |
| Tensile Elongation, ASTM D-638 | 2.0 % | 2.0 % |
| Barcol Hardness (934-1), ASTM D-2583 | 35 - 45 | 35 - 45 |

All specification and properties shown are approximate. Specifications and properties of material delivered may vary slightly from those given above. Inliner Technologies, Inc. makes no representations of fact regarding the material except those specified above. No person has any authority to bind Inliner Technologies, Inc. to any representation except those specified above. Final determination of the suitability of the material for the use contemplated is the sole responsibility of the Buyer. Inliner Technologies, Inc. sales representatives will assist in developing procedures to fit individual requirements.