Urethane Hybrid Resin, Dion® 31040-00, Introduced for Pultrusion : One Component, Urethane Hybrid

Reichhold has introduced a new urethane hybrid resin, DION® 31040-00, for the pultrusion market.

RESEARCH TRIANGLE PARK, N.C. (PRWEB) October 13, 2008 -- Dion® 31040-00 is a low viscosity, urethane hybrid resin designed for high performance composite applications. Dion® 31040-00 is a medium to high reactivity urethane hybrid resin developed to give excellent impact strength and toughness. It is a unique system for customers in search of a tough resin with excellent short beam shear properties when compared to conventional polyester and vinyl ester resins. It is specifically designed for closed mold applications such as pultrusion where composite applications demand enhanced mechanical properties.

Additionally, the material was developed to allow customers to simultaneously achieve the excellent flexibility and toughness of polyurethanes combined with the high strength, stiffness, and temperature resistance of polyesters. This material has substantially better impact properties as compared to vinyl esters. This resin is compatible with both nano-clays and carbon fiber materials.

This low viscosity, outstanding physical properties and all around toughness make it suitable for a wide variety of FRP production applications allowing for high production rates.

Applications for Dion® 31040-00 include:

- Window Lineals
- Ladder Rails
- Tool Handles
- Waterfront Structures
- Structural Shapes
- Utility Pole
- Cross-Arms
- Composite Utility Poles

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