

GP® 677D60 Intumescent Resin

PRODUCT INFORMATION

DESCRIPTION

GP® 677D60 intumescent resin was developed by Georgia-Pacific Chemicals LLC for use in the manufacture of fiber reinforced plastic (FRP) products. It is used as a two-part system with GP 4840 catalyst.

USE AND APPLICATION

The resin GP 677D60 (mixed with the catalyst GP 4840) is usually applied as coating onto a substrate to provide intumescence. Alternatively, the resin can also be impregnated into a fiberglass or other nonwoven substrate and applied as a post curable B-staged laminate to provide intumescence.

By varying the amount of the catalyst mixture in the GP 677D60 resin, desired pot life and cure speed can be achieved; e.g., decreased catalyst mixture level results in increased pot life. Slow heating rate and gradual increase in post-cure temperature are suggested to avoid blistering and to optimize the performance of finished FRP products.

STORAGE AND HANDLING

GP 677D60 resin and GP 4840 catalyst should be used in areas with good ventilation. Storage at temperatures of 50-70°F is recommended for the resin. GP 4840 acid catalyst can be stored at room temperature. As with any resin/acid system, precise and thorough mixing of the resin and catalyst mixture is essential to achieve uniform cure and optimum quality.

Georgia-Pacific Chemicals supplies GP 677D60 resin and GP 4840 catalyst in drums and bulk quantities. Additional information on the safe handling of GP 677D60 resin and GP 4840 catalyst is in the Safety Data Sheets available from Georgia-Pacific Chemicals.

Typical Properties

Color	Water White
Non-Volatiles, %	78 – 82
Solubility in Water	Complete
pH (1:1 w/H ₂ O) at 25°C	8.5 – 9.2
Specific Gravity at 25°C	1.235 – 1.260
Storage Life at 25°C	2 years

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