



GP[®] 161G66 Resin/ GP[®] 012G23 Phenolic System for FRP

Product Information

DESCRIPTION/

GP[®] 161G66 phenolic resole resin is used in conjunction with GP[®] 012G23 base catalyst in the manufacture of pultruded composite parts. GP 161G66 is a phenolic resole and GP 012G23 is a base catalyst. Together, the products are designed to improve processability as well as the quality of the cured part. They are formulated to provide low smoke generation, flame resistance and strength.

USES AND APPLICATION

FRP products manufactured with the GP 161G66/GP 012G23 system are used in many applications where fire and smoke are a concern such as in composites, passenger platform decking and offshore oil rig grating.

STORAGE AND HANDLING

GP 161G66 resin should be used in areas with good ventilation. Storage at temperatures below 40°F (5°C) is recommended for the resin, which should be brought to room temperature prior to use. GP 012G23 catalyst can be stored at room temperature. As with any resin/catalyst 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 161G66 resin and GP 012G23 catalyst in drums and bulk quantities.

Typical Properties of GP 161G66 Resin

Type	Phenol-Formaldehyde Resole
Appearance	Amber to Brown Liquid
Non-Volatiles, %	72 – 76
Viscosity 25°C, cps	1,500 – 2,000
pH	7.7 – 8.7
Specific Gravity @ 25°C	1.10 – 1.20
Weight, lbs/gallon	9.8 – 10.2
Storage Life @ 25°C	30 Days

Typical Properties of GP 012G23 Catalyst

Non-Volatiles @ 135°C, %	60 – 70
Brookfield Viscosity, cps	800 – 1200
pH @ 25°C	6.5 – 8.5

866-4GP-CHEM

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