

GP[®] 7648 Phenolic Impregnating Resin

PRODUCT INFORMATION

INTRODUCTION

GP[®] 7648 resin is a waterborne resin that can be used in a variety of applications including abrasives and the manufacture of FRP, specifically for honeycomb and prepreg. The product is formulated to provide low smoke generation, flame resistance and strength as well as fire resistance among other properties.

USES AND APPLICATIONS

In addition to applications such as abrasives, GP 7648 resin is appropriate for use in fire-safe construction materials, fire-safe railcar parts, fire-safe bus parts, aircraft interiors, composites, air conditioning and mining ventilation systems, and other high temperature applications.

CERTIFICATIONS

GP 7648 resin meets the requirements of Military Specification MIL-R-9299C, Type II, Class 2 Grade A..

STORAGE AND HANDLING

Georgia-Pacific Chemicals supplies GP 7648 in drums and bulk quantities. GP 7648 resin should be used in areas with good ventilation. Although the product can be shipped normally, storage at temperatures below 40°F (5°C) is recommended for the resin, which should then be brought to room temperature and mixed well prior to use. Storage life for the resin at 40°F (5°C) is 3 months. The proper personal protective equipment should be worn when handling the product. Additional information on the safe handling of GP 7648 resin can be found in the Safety Data Sheet available from Georgia-Pacific Chemicals.

TYPICAL PROPERTIES

Type	Phenol-formaldehyde Resole
Color	Amber to Brown Liquid
Non-Volatiles, %	64 - 68
Viscosity @ 25°C, cps	100 - 200
pH	8.4 - 8.8
Hot Plate Stroke Cure @ 150°C, seconds	100 - 150
Free Formaldehyde, %	1.5 maximum

FIRE AND SMOKE PROPERTIES

TEST	METHOD	RESULTS
OSU Heat Release	ASTM E-906 (KW-min-m ⁻² /kw-m ⁻²)	15/25
NBS Smoke Density	ASTM F-814	1

Test specimens: 12-ply laminate cured @ 300°F for 30 min. under 300 psi. Resin content = 35.3%.

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