

Product Information

Pultru Pultrusion Resin

TYPICAL LIQUID RESIN PROPERTIES*

	Nominal	Test Method
Viscosity, Brookfield RTV Spindle #3 at 50 RPM, cps	825	
Weight Per Gallon, lb./gal.	9.35	
Acid Number, mg. KOH/gr.	13	
Styrene, %	28	
Color Gardner	4 max	
Stability, 120°F	20 days	

TYPICAL CURING PROPERTIES* (1) see back page

SPI Gel Time at 180°F/82°C, 1.0% BPO		
150-190 °F/65.6-87.8°C, minutes	4.5	
150°F/65.6°C to Peak Time, minutes	6.25	
Peak Exotherm, °F/°C	430/221	

TYPICAL CLEAR CAST MECHANICAL PROPERTIES* (2) see back page

Tensile Strength, psi/MPa	11,000/75.8	ASTM D 638
Tensile Modulus, psi/GPa	480,000/3.31	ASTM D 638
Tensile Elongation, %	3.2	ASTM D 638
Flexural Strength, psi/MPa	18,000/124.1	ASTM D 790
Flexural Modulus, psi/GPa	500,000/3.4	ASTM D 790
Heat Distortion Temperature, °F/°C at 264 psi	240/115	ASTM D 648

*Typical properties are not to be construed as specifications.



FEATURES

- Improves resin injection processing
- Lower styrene content possible
- Medium reactivity
- Tough and versatile with excellent crack resistance
- Accepts higher filler loading

BENEFITS

Processability

Suitable for a wide range of pultrusion applications. Improved wetout will reduce scrap in both resin injection and open bath uses. Computer controlled manufacturing for consistent end-use performance.

Adaptability

Balanced chemistry and unique properties to allow designers to meet a broad spectrum of applications.

DESCRIPTION

Pultru P920-72 is a pultrusion resin specifically developed to meet the emerging needs of the pultrusion industry. The challenges of new processing methods, reduced cost and reduced styrene emissions are all met by this resin.

Pultru P920-72 is ideally suited for the demanding requirements of resin injection. The combination of reduced viscosity and outstanding wetout insure consistent composite properties at high pull speeds and even in thick sections.

Pultru P920-72 will allow higher filler loading to reduce product costs or can maintain viscosity and processing characteristics at reduced styrene contents.

Pultru™ P920-72 Polyester Resin

STORAGE STABILITY

Resins are stable for three months from date of production when stored in the original containers away from sunlight at no more than 70°F/21°C. After extended storage, some drift may occur in gel time.

During the hot summer months, no more than two months stability at 86°F/30°C should be anticipated.

SAFETY

See appropriate AOC MSDS for guidelines.

ISO 9001:2000 CERTIFIED

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2000 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

FOOTNOTES

(1)

The gel times shown are typical but may be affected by catalyst, promoter and inhibitor concentrations and resin, mold and shop temperature. Variations in gelling characteristics can be expected between different lots of catalysts and at extremely high humidities. Pigment and fillers can retard or accelerate gelation. It is recommended that the fabricator check the gelling characteristics of a small quantity of resin under actual operating conditions prior to use.

(2)

Based on tests at 77°F/25°C and 50% relative humidity. All tests performed on unreinforced cured resin castings. Castings are post cured.



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