

## Product Information

# Pultru® Isophthalic Pultrusion Resin

### TYPICAL LIQUID RESIN PROPERTIES\*

	Nominal
Viscosity, Brookfield RTV Spindle #4 at 20 RPM, cps	1500
Weight Per Gallon	9.35 lb./gal./1.14gr./cc.
Acid Number, Solids Basis	17mg./g/KOH
Styrene, %	36
Color Gardner	3
Stability, 120°F	20 days

### TYPICAL CURING PROPERTIES\* (1) see back page

SPI Gel time at 77°F/25°C, 1.0% BPO	
150-190°F/65.6-87.8°C, minutes	4.5
Gel to peak time, minutes	6.0
Peak Exotherm, °F/°C	455/235

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

		Test Method
Tensile Strength, psi/MPa	7,000/43.3	ASTM D 638
Tensile Modulus, psi/GPa	515,000/3.6	ASTM D 638
Tensile Elongation, %	1.5	ASTM D 638
Flexural Strength, psi/MPa	15,200/104.8	ASTM D 790
Flexural Modulus, psi/GPa	620,000/4.27	ASTM D 790
Heat Distortion Temperature, °F/°C at 264 psi	256/124	ASTM D 648

\*Typical properties are not to be construed as specifications.

### DESCRIPTION

Pultru® P764-250 is an unpromoted high reactivity isophthalic polyester resin. Pultru® P764-250's polymer backbone was designed to capture a wide array of desirable properties for both the Pultruder and the end user. Balanced reactivity allows Pultru® P764-250 to perform in a variety of other closed mold processes

Balanced chemistry offers benefits in moisture resistance, stain resistance, and weathering. In addition, Pultru® P764-250's ability to team up with a wide selection of low profile additives yields exceptionally pleasing surface aesthetics.



### FEATURES

- High reactivity isophthalic chemistry
- Ingredients comply with Title 21 CFR, parts 170 to 199 relative to FDA criteria
- Good stain and moisture resistance
- Excellent electrical properties are an added plus

### BENEFITS

#### Processability

Suitable for a wide variety of pultrusion applications and other closed mold processes including SMC and BMC.

#### Adaptability

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

#### Proven History

Pultru® P764-250 has demonstrated years of proven performance in appliance, electrical, construction and food service applications.

# Pultru® P764-250 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. 1/8" castings were prepared using 1.0% BPO, post cured for 2 hours at 250°F/121°C using AOC's test method X-12Ab.



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Our recommendations should not be taken as inducements to infringe any patent or violate any law, safety code or insurance regulation.