

Product Information

Isophthalic Polyester Resin for Closed Mold Processing

TYPICAL RESIN PROPERTIES*

	Nominal
Viscosity @ 77°F/25°C, Brookfield RVT Spindle #4 @ 50 rpm, cps	2,250
Weight Per Gallon, lb./gal./gr./cc.	9.3/1.11
Acid Number, Solids Basis, mg./g. KOH	17
Non-Volatiles, %	67
Color Gardner	3

TYPICAL CURING PROPERTIES* (1) see back page

	Nominal
180°F/82°C SPI Gel Exotherm Test, 1% BPO	
150°F - 190°F/65.6 - 87.8°C, min	4.5
150°F/65.6°C - Peak, min	6.0
Peak Exotherm, °F/°C	455°F/235°C

TYPICAL CAST MECHANICAL PROPERTIES* (2) see back page

		Test Method
Tensile Strength, psi/MPa	7,000/48.3	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 @ 264 psi	256/124	ASTM D 648

*Typical properties are not to be construed as specifications.

DESCRIPTION

T764-67G is an unpromoted high reactivity isophthalic polyester resin. T764-67G's polymer backbone was designed to capture a wide array of desirable properties for both the molder/fabricator and the end user. Balanced reactivity allows T764-67G to perform in a variety of closed mold processes.

Balanced chemistry offers benefits in moisture resistance, stain resistance and weathering. In addition, T764-67G's ability to team up with a wide selection of low profile additives yields exceptionally pleasing surface aesthetics.



FEATURES

- Contains renewable and/or recycled content.
- 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

BENEFITS

Processability

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

Adaptability

Balanced chemistry allows engineers and designers to meet a broad spectrum of applications.

Proven History

T764-67G has demonstrated years of proven performance in appliance, electrical, construction and food service applications.



EcoTek® T764-67G Polyester Resin



PERFORMANCE GUIDELINES

A. Keep full strength catalyst levels between 0.75% - 2.0% of the total resin weight.

B. Maintaining shop temperatures between 65°F/18°C and 90°F/32°C and humidity between 40% and 90% will help the fabricator make a high quality part. Consistent shop conditions contribute to consistent gel times.

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 month's stability at 86°F/30°C should be anticipated.

SAFETY

See appropriate Material Safety Data Sheet for guidelines.

ISO 9001:2008 CERTIFIED

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2008 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)

All tests at 77°F/25° and 50% relative humidity. Castings were post cured.



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