

Product Information

Isophthalic Polyester Resin

TYPICAL LIQUID RESIN PROPERTIES*

	Nominal
Viscosity @ 77°F/25°C, LVF Brookfield Spindle #4 @ 60 RPM, cps.	1,000
Non-Volatiles, %	69.5
Uncatalyzed stability @ 77°F/25°C, months	6
Weight per US Gallon, lbs.	9.4
Colour	Amber

TYPICAL CURING PROPERTIES* (1) see back page

180°F/ SPI Gel Time	
150°F to 190°F, minutes	7.5
150°F to Peak Exotherm, minutes	10.5
Peak Exotherm, °F/°C	320/160

TYPICAL CASTING PROPERTIES* (2) see back page

		Test Method
Tensile Strength, psi	2260/15.6	ASTM D 638
Tensile Modulus, psi	50000/345	ASTM D 638
Tensile Elongation, %	56.0	ASTM D 638
Flexural Strength, psi	Yields	ASTM D 790
Flexural Modulus, psi	Yields	ASTM D 790
Heat Distortion Temperature, °F/°C @ 264 psi	Yields	ASTM D 648

*Typical properties are not to be construed as specifications.



DESCRIPTION

AOC's T750-70 is a flexible isophthalic polyester resin to be used in conjunction with most resin systems. T750-70 exhibits excellent elongation while preserving good tensile properties. Enhanced toughness of molded parts has been demonstrated in a wide spectrum of customer applications including AOC's chemical resistant isophthalics, orthophthalics, and SMC/BMC type resins.

FEATURES

- High elongation
- Excellent compatibility
- Good tensile strength

BENEFITS

- *Toughness* - boosts toughness and flexural properties.
- *Versatile* - demonstrated in a variety of applications and molding processes.
- *Compatibility* - blended with both isophthalic and/or orthophthalic resin systems.

T750-70 Polyester Resin

PERFORMANCE GUIDELINES

A. Keep full strength catalyst levels between 1.0% - 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 six 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 Material Safety Data Sheet for guidelines.

ISO 9002 CERTIFIED

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9002 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 and inhibitor concentrations and the temperature of the resin, mold and shop conditions. 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°C and 50% relative humidity. All tests performed on unreinforced cured resin castings. Castings were prepared using 1% BPO post cured for 2 hours at 250°F/121°C using AOC 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.