EcoTek™
GREEN TECHNOLOGIES

EcoTek™ A709-LMAG Polyester Resin

Product Information

EcoTek Acrylic Modified Isophthalic Polyester Resin for Solid Surface and Engineered Quartz

TYPICAL CASTING PROPERTIES* (2) see back page

	Nominal	Test Method
Tensile Strength, psi/MPa	11,330/78.1	ASTM D 638
Tensile Modulus, psi/GPa	580,000/4.0	ASTM D 638
Tensile Elongation, %	2.4	ASTM D 638
Flexural Strength, psi/MPa	20,800/143	ASTM D 790
Flexural Modulus, psi/GPa	630,000/4.3	ASTMD 790
Heat Distortion Temperature, °F/°C at 264 psi	185/85	ASTM D 648

TYPICAL LIQUID RESIN PROPERTIES

	Nominal
Viscosity @ 77°F, RVF Brookfield Spindle #3 @ 20 RPM, cps.	700
Color	Peach
Non-Volatiles Content, %	66

TYPICAL CURING PROPERTIES* see back page

Gel time @ 77°F/25°C, 1% MEKP, minutes	10 or 25
Gel to peak, minutes	12
Peak Exotherm, °F	356

DESCRIPTION

AOC's EcoTek A709-LMAG is a prepromoted Acrylic Modified solid surface casting resin. This resin has been designed to be used to produce solid color, granite and quartz sheets and bowls.

EcoTek A709-LMAG is designed to provide extreme versatility in selecting the combination of gel time and viscosity that suits the specific manufacturing process, working conditions and raw materials.

FEATURES AND BENEFITS

- The combined renewable bio-derived content and/or recycled content of EcoTek A709-LMAG is 20%
- Premium ISO/NPG polymer
- Acrylic modified
- Fast cure and demold
- Excellent stain and blush resistance
- Increased UV stability
- Consistent, accurate coloring of cured solid surface

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The information contained in this data sheet is based on laboratory data and field experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any liability for occurrences arising out of its use. The user, by accepting the products described herein, agrees to be responsible for thoroughly testing each such product before committing to production.

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

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PERFORMANCE GUIDELINES

A. Keep full strength catalyst levels between 1.0% - 2.0% (1.25% minimum with mechanical application) of the total resin weight.

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

STORAGE STABILITY

This product is stable for three months from the date of manufacture when stored in the original containers, away from direct sunlight or other UV light sources and at or below 70°F/21°C.

Storage stability of two months or less should be anticipated if the storage temperature exceeds 86°F/30°C.

After extended storage, some drift may occur in the product viscosity and gel time.

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 run at 77°F/25°C and 50% relative humidity. All tests performed on unreinforced cured resin castings. Thixotropic components, if applicable, are excluded from casting samples. Castings were post cured.

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