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VICAST® A563-FSA-07 POLYESTER RESIN

Product Information

HIGHLY FLEXIBLE RESIN FOR CASTING OR BLENDING

Typical Cast Mechanical Properties[1]			
Test	**Unit of Measure**	**Nominal**	**Test Method**
Tensile Strength	psi/MPa	435/3	ASTM D 638
Tensile Elongation	%	>100	ASTM D 638
Heat Distortion Temp	°F/°C @264 psi	<50/<10	ASTM D 648

Typical Liquid Properties[2]		
Test	**Unit of Measure**	**Nominal**
Viscosity, RV Brookfield Spindle #2 @ 20 rpm	cps	500
Styrene	%	30
Gel Time, Syrgis MEKP-925	minutes	7
Gel to Peak	minutes	15
Peak Exotherm	°F/°C	250/121

Typical properties are not to be construed as specifications.

DESCRIPTION

AOC's Vicast A563-FSA-07 is a prepromoted, non-thixotropic highly flexible polyester resin formulation designed for use with MEKP.

APPLICATIONS

- Imitation wood castings
- Figurines
- Cast Furniture Parts

BENEFITS

Vicast A563-FSA-07 can act as a binder resin in the manufacture of furniture using such fillers as ground pecan shells, wood flour, milled fibers, etc.

Vicast A563-FSA-07 can also be used as a blender with rigid resins to increase toughness and elongation.

CAUTION

It is the responsibility of the composite manufacturer to evaluate this product and determine the suitability of A563-FSA-07 for their process and application.

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PERFORMANCE GUIDELINES

A. Keep full strength catalyst levels between 1.0% - 2.0% (1.25% minimum with mechanical applications) 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 date of manufacture when stored in the original containers away from sunlight at no more than 70°F/21°C.

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

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

SAFETY

See the appropriate 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) Based on tests run at 77°F/25°C and 50% relative humidity. All tests were performed on unreinforced cured resin castings. Thixotropic components, if applicable, are excluded from casting samples. Castings are post cured for 5 hours at 212°F/100°C using AOC test method X-12Ab.

(2) The gel times shown are typical but may be affected by catalyst, promoter, inhibitor concentration, resin, mold, and shop temperature. Variations in gelling characteristics can be expected between different lots of catalysts and at extremely high humidities. Pigment and/or filler 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.

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