

Synolite™ 1112-G-1

Unsaturated polyesterCasting resin for Cultured marble and Polymer concrete

Synolite™ 1112-G-1 is a polyester resin made from recycled PET that can be easily converted in casting processes. The low resin viscosity allows for obtaining high filler loadings.

The resin is often used behind a gelcoat in sanitary applications, as well as for industrial components in polymer concrete.

Benefits

- Dimensional predictability through low resin shrinkage and high filler loading
- Easy processing
- Cost efficiency associated with high filler loading
- Green resin made from recycled PET

AOC Next® Product



Synolite™ 1112-G-1 is a resin made from recycled PET feedstock. For that reason the resin has received the AOC Next® Eco-label for Sustainable Products and Solutions.

Major Applications

Synolite® 1112-G-1 is particularly suitable for the production of components through casting processes, often used in sanitary and bathroom applications.

Product Specifications

Property	Value	Unit	TM
Appearance	Hazy		TM 2265
Solids content	59 - 63	%	TM 2033
Viscosity 25 °C, Brookfield	230 - 280	mPa.s	TM 7001
Volatility	37 - 41	%	TM 2017
Gel time 25 °C	13 - 17	min	TM 7103
Peak time	4 - 12	min	TM 7103
Peak temperature(Tmax)	160 - 184	°C	TM 7103

Viscosity measurement: RV#2 @ 20 rpm 60 sec @ 25°C. Reactivity determined with 100g Resin, @ 23°C, 1.5g Medium reactive methyl ethyl keton peroxide (MEKP).

Liquid			
Property	Value	Unit	TM
Flash point	33	°C	TM 2800
Stability (no initiator, dark, 25°C)	6	month	

Solid Unfilled			
Property	Value	Unit	TM
Tensile strength	60	MPa	ISO 527-2
Tensile modulus	3400	GPa	ISO 527-2
Elongation at break	2	%	ISO 527-2
Flexural strength	119	MPa	ISO 178
Flexural E-Modulus	3.7	GPa	ISO 178
Outer fiber strain	3	%	ISO 178
Elongation at break	2	%	ISO 527-1
HDT	60	°C	ASTM D648

Storage Guidelines

The resin should be stored indoors in a dry place at temperatures between 5°C and 30°C, in the original, unopened, 100% light-tight and undamaged packaging.

The properties of the resin may change slightly during storage. Shelf life is shorter at higher temperatures.

Material Safety

A Material Safety Data Sheet of this product is available on request.

Test Methods

Test methods (TM) referred to in the table(s) are available on request.

ISO 9001:2015 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.

AOC. Trusted Solutions

AOC is the leading global supplier of resins and specialty materials which enable customers to create robust, durable and versatile products and components. With strong capabilities around the world in manufacturing and science, the company works closely with customers to deliver unrivaled quality, service and reliability for today, and create innovative solutions for tomorrow. Partner with AOC and we will work together to find the right solutions for your business.

Contact us for more information

We will help you choose the right resin solution.

Tel.: + 45 4485 0500
web@monofiber.dk

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