Synolite™ 0544-I-2

Orthophthalic resin

Synolite™ 0544-I-2 has good mechanical properties. The elongation at break is similar to that of most common glass reinforcement. The resin is suitable for the product that has a high requirement on mechanical properties.

Benefits

Major applications

Synolite™ 0544-I-2 has good mechanical properties. The elongation at break is similar to that of most common glass reinforcement. The resin is suitable for the products which has a high requirement on mechanical properties. It is especially developed for hand lay-up and spray-up applications, and stabilised for use in tropical regions.

Certifications and Approvals

Synolite™ 0544-I-2 resin has been approved by the Lloyds' Register of shipping.

Product Specifications

Property	Value	Unit	TM
Appearance	Hazy		TM 2265
Gel time 25 until 35 °C	20 - 28	min	TM 2625
Solids content	56 - 60	%	TM 2033

Reactivity @25℃ TM2625: 100g resins + 2.0g Butanox M50 (AKZO-Nobel)

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Liquid resin typical properties

Property	Value	Unit	TM
Flash point	33	℃	TM 2800
Stability (Solid, dark, 25 °C)	3	month	25 °C, dark, TM 2303

Unfilled castings typical properties

Property	Value	Unit	TM
Flexural E-Modulus	3.2	GPa	ISO 178
Flexural strength	125	MPa	ISO 178
HDT	86	℃	ASTM D648
Impact strength unnotched spec	12	kJ/m²	ASTM D4812
Elongation at break	2.5	%	ISO 527-2
Tensile modulus	4.3	GPa	ISO 527-2
Tensile strength	77	MPa	ISO 527-2

Curing conditions: Curing for 24 hours at R.T. + post-curing for 24 hours at 80℃. Testing conditions: Temperature at 23±2℃; relative moisture at 50±5%.

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Contact us for more information

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