

Product Data Sheet

Synolite 8488-G-2

Major applications

Synolite 8488-G-2 is a low viscosity, polyester resin. It is particularly recommended for use in vacuum assisted resin injection moulding when improved productivity is required

Principal properties

Synolite 8488-G-2 is a DCPD based, pre-accelerated, unsaturated polyester resin in styrene monomer. Typical geltime is 110 min with 2% Butanox M 50 at room temperature

Synolite 8488-G-2 is characterised by fast demoulding time and excellent cure properties with a reduced peak exotherm temperature.

Synolite 8488-G-2 is particularly suitable for use in marine applications.

Product specifications upon delivery

Property	Range	Unit	TM
Viscosity, 23°C	80 - 90	mPa.s	2013
Solids content, IR	55.5 - 58.5	%	2033
Appearance	clear	-	2265
Gel time from 25 to 35°C	45 - 49	minutes	2625
Cure time from 25°C to peak	78 - 92	minutes	2625
Peak temperature	40 - 65	°C	2625

Remarks

TM 2013: 23°C, physica, sp Z2, 100 s⁻¹

TM 2625 : 100g resin + 3,0 g Butanox M 50

Other data

Property	Value	Unit	TM
Density, 23°C	Appr. 1050	kg/m ³	2160
Flash point	Appr. 33	°C	2800
Stability, no init., dark, 20°C	6	months	-

Properties of cast unfilled resin (typical values)

Property	Value	Unit	TM
Tensile strength	66	MPa	ISO 527-2
Tensile E-modulus	3.5	GPa	ISO 527-2
Elongation at break	3	%	ISO 527-2
Heat deflection temperature (HDT)	64	°C	ISO 75-A
Hardness	40	Barcol	2604

Curing conditions

Post cure 16 hours at 40 °C

Note: HDT = 78°C with 1,74 g of MEKP , and 24 hours at 23°C + 24 hours at 70 °C (version with a gel time of 20 minutes).

Guidelines before use

Before use, the resin should be conditioned at a well defined, application dependant temperature (usually 15°C minimum for a MEKP cure). Stir the product before blending.

Storage conditions

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

Shelf life is reduced at higher temperatures and the properties of the resin might change during storage. The shelf life of styrene containing unsaturated polyesters will be significantly reduced when exposed to light. Store in dark and in 100% light tight containers only.

Material Safety

A material safety data sheet for the product is available on request.

Test methods

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