

POLYNT 4660 TAE

First Emission: 17/07/2018

Version: 00, 17/07/2018

Product type

Unsaturated polyester resin in styrene, Isophthalic

Appearance

Bluish - Opalescent

Main resin characteristics

Low exothermic peak, Low styrene emission, Preaccelerated, Thixotropic, With catalyst indicator

Main applications

Marine, boats, Reinforced plastics, general purpose

Moulding informations

Hand lay up and Spray up

Shelf life and storage

Store in the shade, out of direct sunlight. Keep storage temperature below 25°C. Unseal container just before use. Shelf-life will be reduced reaching higher temperature.

Precaution for handling

As the resin includes a film-forming agent, we recommend that the laminate should first be rubbed down before bonding or relaminating. Read carefully the Safety Data Sheet, Stir the resin before use, without use air bubbles

Note

FEATURES OF THE LIQUID RESIN

Properties	Test Method	Unit	Typical values
Specific weight at 20°C		g/cm ³	1,10
Brookfield viscosity at 25°C, sp 2 rpm 20	MT-CUT25V	mPa.s	750 - 1000
Solid content	MT-CU001C	%	54,5 - 58,5
Reactivity	at 25°C + 1% MEKP50		
Gel time	RS.08.G	minutes	37 - 49
Curing time	RS.08.G	minutes	19 - 29
Exothermic peak	RS.08.G	°C	150 - 180
Shelf life at 23°C in the dark	MT-CU002S	months	3

PROPERTIES OF THE CURED UNREINFORCED RESIN

Curing cycle	24h at 23°C + 2h at 100°C + 1h at 100°C		
Tensile strength	ISO 527 (2012)	MPa	50
Tensile modulus	ISO 527 (2012)	MPa	3800
Elongation at break	ISO 527 (2012)	%	1,6
Flexural strength	ISO 178/B (2010)	MPa	100
Flexural modulus	ISO 178/B (2010)	MPa	3800
HDT	ISO 75-2A (2013)	°C	105
Glass transition	ASTM E 1545 (2011)	°C	113
Barcol hardness at 25°C	ASTM D 2583 (2007)	units	46

The information contained in this document (which is to be intended only for explanatory purposes) is correct and accurate and is based on our technical and scientific knowledge and on literature at the date of publication. Such information relates only to use of the products in the pure state and for the purposes stated herein. Nothing in the information contained in this document shall be deemed to be a warranty or a representation (explicit or implicit) by the manufacturer, and/or taken or construed as infringing of any existing patents. The manufacturer shall not be under any liability or responsibility for any of the information provided under this document or for any errors, omissions or misstatements, even with regard to results to be obtained through the use of the aforesaid information.