

General Purpose Bio-Based Resin

First Emission: 04/08/2023

Version: 2, 03/02/2025

Product type

Unsaturated polyester resin in styrene, Orthophthalic

Appearance

Pink

Main resin characteristics

Bio-based
Low styrene emission
Preaccelerated
Thixotropic

Main applications

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 introducing air.

FEATURES OF THE LIQUID RESIN ⁽¹⁾

Properties	Test Method	Unit	Typical values
Specific weight at 20°C		g/cm ³	1,10
Rotothinner viscosity at 23°C	MT-CU 008V	Hazen	250 - 280
Solid content	MT-CU 001C	%	56 - 60
Reactivity	at 23°C + 1,5% MEKP50		
Gel time ⁽²⁾	MT-CU 151R	minutes	14 - 18
23°C - Peak	MT-CU 151R	minutes	27 - 37
Exothermic peak	MT-CU 151R	°C	90 - 110
Storage stability at 23°C in the dark	MT-CU 002S	months	4

1) Thoroughly test in your applications before full-scale use. Gel times may vary due to the reactive nature of these materials and due to different brands of curing additives. Always test on small scale before formulating large quantities.

2) If present, Cobalt is herewith intended as octoate. Use of different Cobalt salts could result in different gel times. Always test on small scale before formulating large quantities.

PROPERTIES OF THE CURED UNREINFORCED RESIN ⁽³⁾

Curing cycle	16 h at 40°C (+ 2 h at 120°C for HDT)		
Tensile strength	ISO 527 (2012)	MPa	57
Tensile modulus	ISO 527 (2012)	MPa	3715
Elongation at break	ISO 527 (2012)	%	2,3
Flexural strength	ISO 178 (2011)	MPa	98
Flexural modulus	ISO 178 (2011)	MPa	3630
HDT	ISO 75-2A (2013)	°C	64

3) Properties are typical values, based on material tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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.