

DIEPAL 2130 BMT

Technical Data Sheet DIEPAL 2130 BT

Description

DIEPAL 2130 BT

is an unsaturated polyester resin based on orthophthalic acid, DCPD, DIN 1130 (DIN1694/2), dissolved in styrene, for the manual application and fibre spraying process. It is covoraccelerated (B) and thixotropic (T).

DIEPAL 2130 BT is low to medium reactive and cures even with thick laminates with low temperature peak and low distortion.

Features

	Unit	DIEPAL 2130 BT
Density at 20°C	g/cm ³	1.10
Viscosity (dPa.s): V25		Brookfield at 23°C
Spindle 2 Speed 50rpm:		3.3-4.1
Solid content	%	58-62
Gelling Time (1.5% Norox CP)-9)	min	20-24 (Measurement Method R151)
Temperature peak	° C	110-130 (Measurement Method R151)
Best before	Months	3

Mechanical properties (cured resin not reinforced)

Post-curing (16 hours at 40 ° C and 2 hours at 90 ° C)

Features

	Unit	DIEPAL 2130 BT
Flexural strength (ISO 178)	MPa	94
Bending modulus (ISO 178)	MPa	3520
Tensile strength (ISO 527)	MPa	58
E-Module (tensile test; ISO 527)	MPa	3813
Elongation at break (ISO 527)	%	2.2
Heat deflection (ISO 75-2 A(1999))	°C	67 (at zus. post-curing 2h at 120°C)

Mechanical properties in laminate (4 layers 450g/m²)

Features

	Unit	DIEPAL 2130 BT
Tensile strength (ISO 527)	MPa	58
Elongation at break (ISO 527)	%	2.2
Flexural strength (ISO 178)	MPa	200
Bending modulus (ISO 178)	MPa	7600

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Processing/Hardening

Before processing, UP resins should be stirred well and homogenized.

For curing, we recommend organic peroxides with low water and glycol content, such as Norox KP-9. You can vary the processing time slightly via the hardener content. However, the hardener content should be in the range of 1.0-2.5%. Please make sure that there is a good and homogeneous mix after the hardener has been added!

For perfect curing and curing, room, tool and material temperatures of 18-25 °C are recommended.

During curing, direct sunlight and contact with water/moisture should be avoided.

Storage/Handling

UP resins should be stored in the original closed container in dry, well-ventilated places without light and at temperatures below 25 °C.

Please note the safety-relevant data and information on correct handling in the safety data sheet!

Work Equipment Cleaning

Hardened resins can only be cleaned mechanically, such as by grinding! Acetone can be used to remove non-hardened resin residues from the tool, which must then air out sufficiently to prevent the cleaner from entering new containers!

Precautions

When processing unsaturated polyester resins, the information in the safety data sheet must be observed!

More information

If you have any further questions, for example about the processing or the product, please do not hesitate to contact us by phone.

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