

Biresin® G26 PUR - Vacuum Casting resin

Areas of Application

- Manufacture of temperature resistant housings, coverings and other mouldings
- Manufacture of thinwalled parts with complex structure

Product Benefits

- Simulation of PE/PP
- With hardener **Biresin® G53** for higher strength and faster curing
- With hardener **Biresin® U5** for higher temperature resistance
- Dyeable with **Biresin® -Farbpasten**
- Can be cured at RT

Description

- Basis Two-component-PUR-system
- Resin **Biresin® G26**, polyol, beige, unfilled
- Hardener **Biresin® G53**, MDI-based isocyanate, amber, unfilled
- Hardener **Biresin® U5**, MDI-based isocyanate, brown, unfilled

Processing Data		Resin	Hardener	
Individual components		Biresin® G26	Biresin® G53	Biresin® U5
Viscosity, 25°C	mPas	~ 110	~ 175	~ 110
Density	g/cm³	1.06	1.23	1.23
Mixing ratio resin to hardener	in parts by weight	100	75	67
Mixtures				
Mixed viscosity, 25°C	mPas		~ 120	~ 110
Potlife, 200 g, RT	min		2	1'40''
Demoulding time, RT	min		> 20	> 20
Curing time, RT	d		3	3

Physical Data (approx. values)

Biresin® G26 resin		to hardener	Biresin® G53	Biresin® U5
Colour			beige	
Density	ISO 1183	g/cm³	1.1	
Shore hardness	ISO 868	-	D 75	D 71
E-Modulus	ISO 178	MPa	1,310	1,510
Flexural strength	ISO 178	MPa	65	71
Tensile strength	ISO 527	MPa	-	44
Compressive strength	ISO 604	MPa	-	62*
Impact resistance	ISO 179	kJ/m²	30	25
Heat distortion temperature	ISO 75B	°C	95**	104**

* at 10% compressive strain ** values after post curing: 4 h / 80°C

Packaging

Individual components	Biresin® G26 resin	200 kg; 50 kg; 20 kg; 5 kg; 1 kg net
	Biresin® G53 hardener	200 kg; 60 kg; 20 kg; 10 kg; 0,9 kg net
	Biresin® U5 hardener	250 kg; 17 kg; 4.25 kg; 0,7 kg net

Processing

- The material temperature must be 18 - 25°C.
- The resin component must be stirred thoroughly before use.
- Both components must be under vacuum for several minutes before mixing in right mixing ratio and poured into preheated moulds (70°C).
- After complete filling of the moulds, vacuum is switched off and moulds are placed in an oven at 70°C for curing until demoulding.

Storage

- Minimum shelf life is 12 month under room condition (18 - 25°C), when stored in original un-opened containers.
- After prolonged storage at low temperature, crystallisation of components may occur. This is easily removed by warming up for a sufficient time to a maximum of 70°C. Allow to cool to room temperature before use.
- Containers must be closed tightly immediately after use to prevent moisture ingress. The residual material needs to be used up as soon as possible.

Health and Safety Information

For information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

Disposal considerations

Product Recommendations: Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations.

Packaging Recommendations: Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of as product waste.

Value Bases

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Legal Notice

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