

ZEPOXY BARFLEX is ideal for filament winding and pultrusion processes, thanks to its low viscosity, excellent fiber wetting properties, and extended pot life. It is intended for use by experienced professionals only. To ensure material compatibility, testing under real processing conditions with additional materials like fibers and release agents is essential.

PRODUCT BENEFITS

- ✓ Very long potlife
- ✓ Low viscosity
- ✓ Adjustability of reactivity by accelerator (Part C)

APPLICATION

The viscosity and pot life data in this Product Data Sheet are measured at 25°C. If the resin system is processed at different temperatures, adjustments to processing parameters may be necessary. Curing must take place at a minimum of 80°C to ensure solidification, with post-curing recommended for optimal performance.

Before use, inspect all components for crystallization. If crystallization occurs, it can be reversed by heating the product to 60°C–70°C until the crystals are fully dissolved. To prevent moisture absorption, containers should be tightly sealed immediately after each use.

ADJUSTED RATIO WITH PROPERTIES

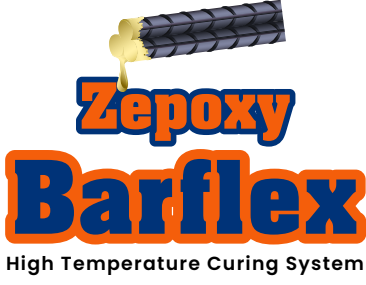
Property	System 1	System 2	System 3
Mix ratio (Part A: Part B: Part C)	100 : 90 : 0.5	100 : 90 : 1	100 : 90 : 1.5
*Pot life (300g mix) @ 25°C	72 hours	48 hours	24 hours
*Gel time on glass fiber rope @ 200°C	6 – 6.5 min	4 – 4.5 min	2 – 2.5 min

*Typical results under laboratory conditions.

TECHNICAL DATA

Property	Test Method	Result
Appearance Part A	Visual	Medium viscosity, clear to light yellow liquid
Appearance Part B	Visual	Low viscosity, clear to light yellow liquid
Appearance Part C	Visual	Low viscosity, clear to light yellow liquid
Density Part A	ASTM D 1475-98	1.16 g/ml
Density Part B	ASTM D 1475-98	1.18 g/ml
Density Part C	ASTM D 1475-98	0.96 g/ml
Mix Density @25°C	ASTM D 1475-98	1.17 g/ml
Mix viscosity @ 25°C	ASTM D 2196	200 – 400 cPs
Hardness	ISO 868	87 Shore D
Glass transition temperature by DSC	ISO 11357	139°C
Heat deflection temperature	ISO 75B	137°C
Impact resistance	ISO 179	18 kJ/m ²
Tensile strength	ISO 527	78 MPa
Flexural Strength	ASTM D 790	145 MPa
Compressive Strength	ASTM D 695	122 MPa

*Typical results under laboratory conditions.



POST-CURING CONDITIONS

3 hours @ 80 °C + 3 hours @ 120 °C + 3 hours @ 140 °C

NOTE

The gel time and pot life of this systems, may differ from the above data due to different fiber content, product thickness and mixture quantity.

PACKAGING

Zepoxy Barflex is available as follows:

Full Kit	1.93 KG	Part A: 1 KG Part B: 900 GRAM Part C: 30 GRAM
Commercial Kit	19.3 KG	Part A: 10 KG Part B: 9 KG Part C: 300 GRAM

HEALTH AND SAFETY

Dispose containers of the materials as per local laws, rules, and regulations. Use gloves, safety masks and other safety apparel as per health and safety laws. For further assistance, please refer to the MSDS of the product for further health and safety information.