



# EP<sup>OX</sup>CLE™

Degradable and Recyclable  
Prepreg Epoxy Resin System

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## Recycling for a green tomorrow



Epoxcle™ PP-220

Epoxcle™ VR-200A B

Epoxcle™ WD-220A B

\*Product updates will not be notified. Information valid only at the time of printing.

# EPOXCLE™

## PP-220

Degradable and recyclable prepreg epoxy resin system

### Features and Advantages

- Suitable for various mold forming processes.
- Optimal balance of static and dynamic properties: high impact strength and high flexural strength.
- Hot melt resins/solvent free: excellent working conditions, low porosity and good product performance.
- Excellent handling of prepregs: good viscosity, tack and flexibility.
- Degradable and recyclable.
- Long storage period: about 4 weeks at 25°C ambient temperature and humidity not higher than 65%.

| Product        | Recommended processing & applications         | Tg(°C) | Gel Time(sec) | Viscosity(mPa.s)                          | Storage                                         |
|----------------|-----------------------------------------------|--------|---------------|-------------------------------------------|-------------------------------------------------|
| Epoxcle™PP-220 | Blow Molding<br>Tank Molding<br>Bench Molding | ≥108   | 700-900@120°C | 70°C: 24,000-32,000<br>80°C: 8,000-12,000 | 25°C: 4 Weeks<br>0°C: 3 Months<br>-18°C: 1 Year |

## VR-200A-Resin/B-Hardener

Recyclable Vacuum Infused Epoxy Resin System

### Applications and Properties

General-purpose recyclable vacuum infusion system for wind turbine blades, ship and yacht manufacturing, and automobile hulls.

- Low mixing viscosity, especially suitable for vacuum processes. Excellent wetting performance for glass and carbon fibers.
- It shows good wettability on glass fiber and carbon fiber to ensure the quality of products.

| Product           | Recommended processing                          | Tg(°C) | Ratio by weight | Initial Mix Viscosity(mPa.s)                  | Tensile Strength(MPa) |
|-------------------|-------------------------------------------------|--------|-----------------|-----------------------------------------------|-----------------------|
| Epoxcle™VR-200A/B | Vacuum infusion<br>RTM<br>Light Winding Process | ≥75    | 100(A):32(B)    | 25°C: 100-300<br>30°C: 70-200<br>35°C: 50-160 | 65.0-75.0             |

## WD-220A-Resin/B-Hardener

Recyclable Medium Temperature Resistant and High-toughness Epoxy Resin System

### Applications and Properties

Suitable for type III hydrogen storage pressure vessel.  
Suitable for Type IV hydrogen storage pressure vessels (PA material).

- Recyclable.
- Excellent wetting performance for glass and carbon fibers.
- Superb storage and performance stability.
- Low viscous and easy to use.
- The resin fracture elongation reaches 10%.

| Product           | Recommended processing | Tg(°C) | Ratio by weight | Initial Mix Viscosity (mPa.s) | Tensile Strength(MPa) |
|-------------------|------------------------|--------|-----------------|-------------------------------|-----------------------|
| Epoxcle™WD-220A/B | Winding process        | >110   | 100(A):85(B)    | 25°C: 300-650                 | >70.0                 |