



常州迈特复合材料有限公司

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Technical Data Sheet

PHENOLIC EPOXY VINYL ESTER RESIN (470)

Introduction

470 is a Phenolic epoxy type vinyl ester resin, better retention of strength and toughness under higher temperature. An ideal resin to meet high anti-corrosion requests.

Been applied in a wide range of FRP applications, provides resistance to a wide range of organic and inorganic acids, alkalis, salt solution, oxidizing chemicals, bleaches and organic solvents.

Same anti-corrosion level as Derakane 470.

Product Features

*Excellent resistance to chemical corrosion, especially acid, alkalis, salt and organic solvent environment

*Good mechanical properties, Good mechanical properties,better retention of strength and toughness under higher temperature

*Application:hand lay up,filament winding,pultrusion,RTM,molded grating,liner making,mix with glass flake,..

Technical Data

Item	Unit	Value	Test Standard
Appearance	/	light yellow transparent liquid	/
Acid Value	KOH mg/g	6-18	GB2895
Viscosity(25°C)	MPa.S	400-700	GB7193
Gel Time	munites	15-30	GB7193
Non-Volatile	%	55-60	GB7193
Thermal Stability(80°C)	h	≥24	GB7193

Indexes of Resin Casting Substance

Item	Unit	Value	Test Standard
Barcol hardness	barcol	40-47	GB3854
Tensile strength	MPa	75-85	GB2567
Elongation at break	%	2-4	GB2567
Flexural strength	MPa	130-150	GB2567
Impact strength	KJ/m ²	8.7	GB2567
H.D.T	°C	165-170	GB1634.2

Experiment Temperature: 23±2°C
Relative humidity: 50±5%

Package

Weight/drum (kg)	Drums/pallet	Quantity per 20'container	Quantity per 40'container
200	4	80drums = 16,000kg	120drums = 24,000kg

Storage

Shelf Time: 6 months (below 20°C environment)

Storage: 470 resin been suggested to be stocked in ventilated place, avoids direct sunlight, heat and fire.

Note:The data were tested according to GB standard. Influenced by many factors in the process of fabrication, necessary researches by user are not exclusive.

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