



常州迈特复合材料有限公司

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Technical Data Sheet

RTM / INFUSION / VACUUM RESIN (105P)

Introduction

105P resin is an ortho-phthalic type, pre-accelerated unsaturated polyester resin, low viscosity and medium reactivity.

Suitable for RTM, L-RTM and Vacuum bagging process.

Product Features

- *Fast wet out with fiberglass mat
- *Low exothermic peak, low shrinkage rate
- *Fast curing and easy demoulding
- *Good mechanical strength of FRP parts

Technical Data

Item	Unit	Value	Test Standard
Appearance	/	Sticky Liquid	/
Acid Value	mgKOH/g	14-20	GB2895
Viscosity(25°C)	mPa.S	100-200	GB7193
Gel Time	munites	20-70	GB7193
Non-Volatile	%	54-60	GB7193
Thermal Stability (80°C)	h	≥24	GB7193

Note: Gel Time is 25°C in air bath;

0.5ml cobalt isocaprylate solution and 0.5ml MEKP solution were added into 50g resin

Indexes of Resin Casting Substance

Item	Unit	Value	Test Standard
Barcol hardness	barcol	35	GB3854
Tensile strength	MPa	60	GB2567
Tensile modulus	mPa.S	3000	GB2567
Elongation at break	%	4	GB2567
Flexural strength	MPa	85	GB2567
Flexural modulus	MPa	2500	GB2567
Impact strength	KJ/m2	8	GB2567
H.D.T	°C	75	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
220	4	80drums = 17,600kg	108drums = 23,760kg

Storage

Shelf Time: 6 months (under 25°C environment)

Storage: 105P 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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