



Technical Data Sheet

TM-1096 unsaturated polyester resins for general purpose

Introduction

TM-1096 is unsaturated polyester resin for general purpose like hand layup and winding process.

Properties of Liquid Resin

Projects	Measured value	Test method
Appearance	Transparent	GB/T 8237.6.1.1
Viscosity (mPa.s, 25°C)	330-400	RS-V004
Gel time (min, 25°C)	10.0-10.6	GB/T 7193.4.6
Acid value (mgKOH/g)	20.0-26.0	GB/T 2895
Solids content (%)	59-64	GB/T 7193.4.3

Gel time: resin: 100g; promoter: 6%Co: 0.5g; initiator: Akzo Noble V388 1.0g

Properties of Resin Casting Bodies (for reference)

Projects	Measured value	Test method
Barcol Hardness	45	GB/T3854-2017
Thermal Deformation Temperature (°C)	81	GB/T1634.2-2019
Flexural strength (MPa)	116	GB/T2567-2021
Flexural modulus (MPa)	3550	GB/T2567-2021

Tensile strength (MPa)	66	GB/T2567-2021
Tensile modulus (MPa)	3650	GB/T2567-2021
Elongation (%)	3.1	GB/T2567-2021

Note: (1), The method of casting bodies making sample must be implemented on the basis of GB/T8237。

(2), curing system: initiator: Butanox M-50 1.0%; promotor: 0.8%Co-Naph 1.0%;

(3), post curing system: 25°C×24 hour + 60°C×3hour + 100°C×2hour

Transportation and Storage

The transportation shall comply with the chapter V of the Regulations on *Measures for the Administration of Road Transportation Safety of Dangerous Goods*.

Store below 25°C

Avoid direct sunlight, fire and heat.

With the compliance of all above, 3 months shelf life should be granted.