M.N. POLYESTER (INDIA) PVT. LTD.

TECHNICAL DATA SHEET

MNP-0051

General Purpose Unsaturated Polyester Resin

Product description

MNP-0051 is a general purpose unsaturated polyester resin designed for general FRP and composite applications requiring good mechanical strength and reliable processing characteristics.

Typical applications

FRP mouldings • Industrial Components • Automotive Components • Panels
Tanks & Covers • General Engineering Composites • Fibreglass Products • General FRP Fabrication

Typical resin properties

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
Specific Weight	kN/m³	**11.002**	ASTM D1475
Density, approx.	g/cm³	**1.121**	Calculated
Viscosity	cP	**638**	ASTM D2393

Typical cured resin properties

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
Barcol Hardness	BIU	**45**	ASTM D2583
Tensile Strength	MPa	**40**	ASTM D638
Tensile Modulus	MPa	**2880**	ASTM D638
Elongation at Break	%	**1.60**	ASTM D638
Flexural Strength	MPa	**61**	ASTM D790
Flexural Modulus	MPa	**4020**	ASTM D790
Compressive Strength	MPa	**134**	ASTM D695

Processing

MNP-0051 is cured using a suitable peroxide catalyst/curing system. Catalyst and accelerator levels should be optimized according to processing temperature, desired gel time, laminate thickness, and production conditions.

Storage and handling

Store in the original closed container in a cool, dry, and well-ventilated area away from direct sunlight, heat, sparks, and incompatible chemicals. Refer to the applicable SDS for detailed safety and handling information.

Shelf life: As specified on the product label / current product specification.

Packaging

Available in standard industrial packaging as per customer requirement.

REFERENCE: IIT Madras, Composites Technology Centre, Test Report No. CTF/10-11/002/1, dated 10/06/2010.

Note: The values stated above are typical/reference values based on the referenced test report and are not guaranteed specifications unless otherwise agreed in writing. Actual properties may vary with batch, curing system, and processing conditions. Customers should conduct application-specific trials before commercial use.

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