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

TECHNICAL DATA SHEET

MNP-0054

General Purpose Resin

Product description

MNP-0054 is a general purpose resin for FRP and composite fabrication. Against MNP-0051, the reported test results show 20% higher tensile strength (48 vs 40 MPa) and approximately 18% higher flexural strength (72 vs 61 MPa).

Typical applications

First-choice grade over MNP-0051 for general FRP laminates and composite mouldings where higher tensile and flexural strength are key selection criteria.

Reported resin properties

PROPERTY	UNIT	REPORTED RESULT	TEST METHOD
Specific Weight	kN/m³	**11.008**	ASTM D1475
Viscosity	cp	**500**	ASTM D2393

Reported casted resin properties

PROPERTY	UNIT	REPORTED RESULT	TEST METHOD
Barcol Hardness	BIU	**45**	ASTM D2583
Tensile Strength	N/mm²	**48**	ASTM D638
Tensile Modulus	N/mm²	**2821**	ASTM D638
Elongation at break	%	**2.115**	ASTM D638
Flexural Strength	N/mm²	**72**	ASTM D790
Flexural Modulus	N/mm²	**3487**	ASTM D790
Compressive Strength	N/mm²	**121**	ASTM D695

Processing

Mix thoroughly. Use a compatible curing system and follow its approved dosage and addition sequence. Never mix peroxide and accelerator directly.

Storage and handling

Store in the original, tightly closed container in a cool, dry, well-ventilated area away from direct sunlight, heat, sparks and incompatible chemicals. Use suitable PPE and follow the applicable SDS.

Packaging

35 kg cans and 220 kg barrels.

REFERENCE: IIT Madras, Composites Technology Centre, Test Reports CTF/10-11/002/2 (MNP-0054) and CTF/10-11/002/1 (MNP-0051), dated 10/06/2010.

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