

M/s. D.M. Construction
Resin and Allied Products
Hosenabad Village, Mogra
Hooghly District-712148

SPECIFICATION OF
UNSATURATED
POLYESTER RESIN



PROPERTIES OF			LIQUID RESIN								CURED RESIN		USE OF THE RESIN
B A S E	Type	Code	Appearance	Acid value (Mg KOH/gm)	Viscosity at 25°C (CPs)	Specific Gravity At 25°C	Refractive Index At 25°C	Volatile Content (%)	Gel time at 25°C (in minutes) temp	Gel time at 82°C (min.) /PE (°C)	Barcol Hardness	Heat Distortion ± 3 (°C)	

O R T H O P T H A L I C	General Purpose	Resobond 3001	Clear to Pale Yellow Liquid	20±2	700-250	1.10-1.13	1.53-1.55	35±2	15	9-13 165°-170°	42-45	70°	Medium reactivity premium G.P. Resin, suitable for hand lay-up moulding, filament winding etc. Extensively used to manufacture normal FRP products. Widely used for potting of chokes.
	General Purpose	Resobond 3002	Clear to Pale Yellow Liquid	20±4	700-250	1.10-1.13	1.53-1.54	33±3	20	9-13 160°-170°	35-40	65°	General purpose resin of medium reactivity. Its bonding & impact strength is very high. Widely used for polyester Putty.
	TMR	Resobond 3101	Clear to Pale Yellow Liquid	22±2	200-300	1.08-1.10	1.53-1.54	38±3	15	10-12 180°-200°	42-45	70°	General purpose resin used widely in resin transfer moulding application.
	Roof Lite	Resobond 3201	Clear to Pale Yellow Liquid	22±2	200-50	1.08-1.10	1.52-1.54	41±2	40	16-20 165°-170°	40-45	70°	UV stabilized medium reactive resin used for marking Translucent Rooflite sheets.
	Roof Lite	Resobond 3202	Clear to Pale Yellow Liquid	22±2	200-50	1.10-1.13	1.52-1.54	41±2	40	16-20 170°-180°	40-45	70°	UV stabilizer medium reactive resin used for marking Translucent Rooflite sheets. It can also be used for decorative laminates.
	SMC Ortho	Resobond 3301	Clear to Pale Yellow Liquid	19±2	900-1600	1.10-1.13	1.53-1.54	32±2	15	8-12 160°-170°	43-48	70°	High reactivity resin designed specially for manufacture of SMC.

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O R T H A P T H A L I C	DMC Ortho	Resobond 3401	Clear to Pale Yellow Liquid	21±2	3000-300	1.11-1.14	1.53-1.54	29±3	15	8-12 160 ⁰ -170 ⁰	50-52	70 ⁰	High reactivity resin designed specially foe manufacture of DMC. It can also effectively be used in press moulding. Resin designed for hot press moulding for low shrinkage.
	Fire Retardant	Resobond 3501	White Liquid	16±2	600-1100	1.15-1.20	NA	30±2	15	10-12 150 ⁰ -170 ⁰	40-45	60 ⁰	Medium reactivity resin has very very low inflammability can be safely used to make articles where safety from fire hazards is necessary.
	Fire Retardant SMC	Resobond 3502	White Liquid	16±2	1000-1800	1.15-1.20	NA	28±2	15	8-12 150 ⁰ -170 ⁰	40-45	60 ⁰	High reactivity resin designed specially for manufacture of SMC having fire retardant properties.
	Fire Retardant	Resobond 3503	White Liquid	16±2	1000-1800	1.20-1.30	NA	30±5	15	10-12 165 ⁰ -170 ⁰	48-50	60 ⁰	Low cost Fire Retardant Polyester Resin.
I S O	Normal	Resobond 9001	Clear to Pale Yellow Liquid	13±2	500-800	1.10-1.13	1.53-1.54	39±2	15	9-12 170 ⁰ -200 ⁰	45-50	100 ⁰	High reactivity resin used against mild corrosion resistance of acids. It is widely used to make FRP chemicals process plants, storage tank, pipes, exhaust hood etc. imparts good mechanical and electrical properties.

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PHTHALIC ISOPHTHALIC	SMC/ DMC ISO	Resobond 9101	Clear to Pale Yellow Liquid	14±2	1000-1800	1.10-1.13	1.53-1.54	34±2	15	9-12 185 ⁰ -200 ⁰	45-50	100 ⁰	Highly reactivity high viscous resin specially designed for SMC/DMC application.
	Fire Retardant	Resobond 9201	White Liquid	14(max)	600-1100	1.15-1.25	NA	32±2	15	15-20 155 ⁰ -200 ⁰	40-45	80 ⁰	Highly reactive very low flammability fire retardant resin.
	PVC Grade	Resobond 9301	Clear to Pale Yellow Liquid	14±2	400-200	1.08-1.10	1.52-1.54	40±2	15	6-8 185 ⁰ -200 ⁰	40-45	100 ⁰	Medium reactive polyester resin for FRP laminations on PVC. It has excellent bonding with PVC.
	TMR	Resobond 9401	Clear to Pale Straw Liquid	15±2	250-300	1.09-1.12	1.53-1.54	45±2	15	10-12 180 ⁰ -200 ⁰	42-45	100 ⁰	Isophthalic Resin used widely in resin transfer molding application as per IS-6746

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P T A	SMC/DMC Trerep	Resobond 2611	Clear to Hazy Liquid	12±2	400-700	1.09-1.12	1.53-1.54	38±2	15	9-12 180 ⁰ -190 ⁰	40-45	100 ⁰	Polyester Resin used for SMC/DMC application.
	Normal	Resobond 2612	Clear to Hazy Liquid	16±2	400-700	1.09-1.12	1.53-1.54	38±2	15	9-12 180 ⁰ -190 ⁰	40-45	100 ⁰	Terephthalic acid based polyester Resin suitable for use in fiberglass Rain forced plastics moulding application where superior water resistance, heat resistance is desired in comparison to general purposes polyester resin
G E L C O A T	Ortho - pthalic	Resobond 7181	Opaque Pale Yellow Liquid	19±2	Thixo Tropic	1.10-1.15	NA	34±2	15	9-12 165 ⁰ -170 ⁰	NA	70 ⁰	Thixotropic Gel coat resin to be used for a smooth top surface. This is used as a top coat of FRP articles to make the surface coloured, elastic and highly glossy.
	Isophthalic	Resobond 7182	Opaque Pale Yellow Liquid	12±2	Thixo Tropic	1.10-1.15	NA	38±2	15	9-12 185 ⁰ -200 ⁰	NA	100 ⁰	Thixotropic Gel coat resin based on Isophthalic Polyester Resin. It has high impact resistance; durability is much higher with very low water absorption.
	Ortho - pthalic Fire Retardant	Resobond 7183	Opaque Pale Yellow Liquid	14±2	Thixo Tropic	1.15-1.20	NA	30±2	15	12-15 165 ⁰ -175 ⁰	NA	60 ⁰	Orthophthalic based Fire retardant Gel Coat. It is used as a top coat on fire retardant articles.
	Isophthalic Fire Retardant	Resobond 7184	Opaque Pale Yellow Liquid	10±2	Thixo Tropic	1.15-1.20	NA	32±2	15	12-15 180 ⁰ -200 ⁰	NA	80 ⁰	Isophthalic based Fire retardant Gel coat. It is used as a top coat on fire retardant articles.

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Bisphenol Fumarate	Bisphenol Grade	Resobond 2610	Pale Yellow Liquid	12±2	550-100	1.06-1.08	1.53-1.54	49±2	20*	35-40 175 ⁰ -200 ⁰	42-48	135 ⁰	Based on Prepolymerized Bisphenol Structure offers excellent corrosion resistance to acid mild alkalies, salts, solvents. Suitable for moulding, hand lay-up and filament winding applications.
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*Double promoted system are required for room temperature cure of laminates or Casting.

The information contained herein is based on experimental work done in our laboratories and is believed to be correct to the best of our knowledge.

However since conditions under which our products may be used are beyond our control, recommendation are made without warranty or guarantee.

Shelf life of uncatalysed resin in the dark at 25°C minimum 3 months.