



## EPOXY RESINS

Product Nomenclature	Type	Colour *	Viscosity at 25°C*	% Non volatiles #	Epoxide equivalent wt.	% Hydroly-sable chlorine content	Softening Point+	Specific gravity at 25°C	Remarks / Recommended Usages
R 5451	Solid epoxy resin	4 Max**	0.65-1.25**	–	450-530	–	64-70°C	1.21±0.02	Used in clear laquer, coal tar epoxy coating, white glossy finish
R 5452	Solution epoxy resin	2 Max**	63.4-148	75±1	450-580	0.1 Max	–	1.08±0.02	Product is suitable for cold curing chemical resistant paint & coatings. It is used for corrosion resistant coating with coal tar.
R 5460	Unmodified liquid epoxy resin	2 Max	63.4-148	99.5±0.5	185-200	0.3 Max	–	1.18±0.02	It is used in laminates, flooring composition, casting, bedding construction, electrical industries & grouting compounds
R 5467	Modified liquid epoxy resin	2 Max	4.35-6.27	–	175-200	0.5 Max	–	1.15±0.02	It is used in FRP laminates, flooring composition, casting, bedding construction, electrical industries & grouting compounds

\* tested as such on Gardner scale. Viscosity measured in Poise. \*\* R 5451 tested 40% in diacetone alcohol.

# % Non volatiles of R 5452 checked at 120 deg C for 2 Hrs & R 5460 checked at 120 deg C for one hr by spreading one gm resin in 60 mm diameter aluminium dish.

+ Softening point by ring and ball method with heating rate 5 deg C per minute

Product Nomenclature	Characteristic	Epoxy Equivalent Weight	Softening Point (B&R) (°C)	Dilution solvent/ percentage for testing colour/ Viscosity	Colour (Max.) (Gardner)	Viscosity at 25°C on Gardner (in Stokes)	Remarks / Recommended Usages
Reploxy 5494	Solid	800-1025	95-105	Butyl carbitol / 40	6	4.75-6.27	Epoxy ester preparation & ambient temp. curing solvent based system.
Reploxy 5496	Solid	750-850	90-100	Butyl carbitol / 40	5	3.75-4.75	Powder coatings
Reploxy 5497	Solid	1700-2050	117-127	Butyl carbitol / 40	6	12-27	Suitable for ambient temperature curing two pack isocyanate based system & heat curing one pack amino/phenolic resin combinations. (can/coil/collapsible tube coatings)
Reploxy 5499	Solid	2400-3500	130-145	Butyl carbitol / 40	6	34-98	–do–

## RESINS & PLASTICS LTD.

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Although the information contained in this Product Data Sheet is believed to be correct as of the date hereof, Resins & Plastics Ltd. makes no representation the completeness of accuracy in this Data Sheet. Those who use this product described herein must determine the appropriate manner for processing the product to ensure the safety and quality. In no event shall Resins & Plastics Ltd. be responsible for damages of any nature resulting from the use of or reliance upon the information contained herein.



## EPOXY DILUENTS (REACTIVE DILUENT)

Product Nomenclature	Type *	Colour	Viscosity at 25°C*	Epoxide equivalent wt.	% Hydroly-sable chlorine content	Specific gravity at 25°C	Remarks / Recommended Usages
OC 5196	Aromatic epoxy diluent	2 Max.	4-10 cps	170-185	0.5 Max	1.10±0.02	Electrical applications, flooring and adhesives

## EPOXY ESTER RESINS

Product Nomenclature	Type	Colour *	Viscosity at 25°C*	% Non volatiles #	Acid Value mgsKOH / gm	Xylene Tolerance @	Specific gravity at 25°C	Remarks / Recommended Usages
OC 5491	Epoxy ester (55% in xylene)	5 Max**	6.27-12.9	55±1	7 Max	1:8 min	1.05±0.02	Air drying & stoving chemical resistant finishes for appliances & metal decorations.

\* tested 50% in Xylene on Gardner scale. Viscosity measured in Poise.

# % Non volatiles checked at 120 deg C for one hr by spreading one gm resin in 60 mm diameter aluminium dish.

@ Xylene used in Laboratory reagent grade ortho xylene. Volume / volume basis

## HARDENERS FOR EPOXY ESTER RESINS

Product Nomenclature	Type	Colour *	Viscosity at 25°C*	% Non volatiles #	Amine Value mgsKOH / gm	Recommended loading parts @	Gel time^	Specific gravity at 25°C	Remarks / Recommended Usages
OC 5104	Tertiary aromatic amine	11 Max**	2.5	—	550-610	2-15	15 mts (approx)	0.98	Accelerator for polyamide & epoxy polysulphide sealant
OC 5124	Aliphatic amine adduct (40% in 1 : 1 xylene:butano)	5 Max	3.5	40±2	100-125	1 : 1 (R 5124: R 5451)	Few hrs to few days depending upon dilution	—	Chemical resistant two parts ambient temperature curing coating

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## KETONIC RESINS

Product Nomenclature	Appearance	Colour *	Viscosity at 30°C	Acid Value mgsKOH / gm	Hydroxyl Value mgsKOH/gm	Melting Point +	Recommended Usages
R 5851	Yellowish Lumps	4 Max	20±2	0.5 Max	200 min.	95±5 deg Cel	Ball pen Ink, NC lacquers. It is used to improve gloss & adhesion in surface coating
R 5852	Yellowish Granules	4 Max	20±2	0.5 Max	200 min.	100±5	Ball pen Ink, NC lacquers. It is used to improve gloss & adhesion in surface coating

\* tested as such on Gardner scale. Viscosity measured in Poise.

@ Loading of hardener parts per 100parts of liquid epoxide resin. where EEW is 200

^ Gel time of 150 gm mix at 25°-32° C

# % Non volatile checked at 120 deg C for 1 Hr by spreading one gm resin in 60mm diameter aluminium dish.

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