

Vinyl Ester Resins

Showa Highpolymer Co., Ltd



Description

- Outstanding corrosion resistance to acids and alkalis
- Outstanding mechanical properties, especially resiliency and elongation
- Excellent bonding strength
- Low viscosity
- Excellent photo curing and electron beam curing characteristics

RIPOXY is a thermosetting resin generally called vinyl ester resin, or epoxy-acrylate resin. Cured **RIPOXY** resin has excellent physical properties comparable to those of epoxy resin, but unlike epoxy resins, is as easy to cure as unsaturated polyester resins.

RIPOXY is usually dissolved in styrene monomer or (meth) acrylate monomer.

Specifications

Refs	Color (Gardner)	Specific gravity (25 °C)	Viscosity poise at 25°C	Gel time (min)
R-802 EX	< 5	1.0 to 1.1	4 to 6	22 to 30
R-806 EX	< 8	1.0 to 1.1	0.9 to 2.3	22 to 30
H-630 EX	<10	1.0 to 1.2	1.8 to 2.2	22 to 32

Estimated values measured under ambient temperature, with **MEKPO(55%) / Promoter-EX**(mixture of 60% 6% Cobalt Naphthenate and 40% Dimethylaniline) = **1.5/0.5** added to 100 parts of resin at 25 °C.

General Properties of cures cast resins

Refs	Specific gravity (25 °C)	Heat distortion Temp (°C)	Tensile strength (MPa)	Flexural strength (MPa)	Flexural modulus (GPa)	Compress. strength (MPa)	Charpy impact (J/m2)	Barcol hardness	Elong. (%)	Curing shrinkage (%)
R-802 EX	1.134	100	69-89	120-150	2.7-3.1	108-118	4900-7900	35	6	7.5-8.5
R-806 EX	1.130	110	69-89	120-150	2.9-3.3	108-118	4900-7900	40	3.2	7.5-8.5
H-630 EX	1.127	137	69-79	130-140	3.4-4.0	127-148	1900-4000	42	2.5	7.5-8.5

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