

BEYONE™ 805-N-01

CHEMICAL/PHYSICAL NATURE

Beyone™ 805-N-01 is styrene free vinyl ester resin dissolved in methacrylate. Beyone™ 805-N-01 has a high reactivity and a medium viscosity.

MAJOR APPLICATIONS

Beyone™ 805-N-01 can readily be thickened with magnesium oxide and is developed for SMC/BMC and hot cure applications.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Viscosity	2000 - 2500	mPa.s	2013
Acid value, as such	20 - 25	mg KOH/g	2401
Gel time, 130 °C	50 - 80	s	2261
Peak time	75 - 115	s	2261
Peak temperature	210 - 230	°C	2261
Appearance	Clear	-	2265
Water content	0.05 - 0.15	%	2350

REMARKS

Reactivity determined with 1 g TBpB added to 100 g resin.

Viscosity: Z3/23°C

TYPICAL STARTING SMC FORMULATION

Component	Weight
Beyone™ 805-N-01	60
Beyone™ 806-H-01	40
Peroxide	1
HEMA	10
Byk W9010	3
Calcium carbonate	200
Zinc stearate	5
Luvatol EK100	5

PROPERTIES OF SMC- MOULDINGS

Property	Value	Unit	TM
Flexural strength	165	MPa	ISO 178
Flexural E-Modulus	11	GPa	ISO 178
Outer fiber strain	3.0	%	ISO 178

REMARKS

Mechanical performance measured on samples molded at 160 °C

STORAGE GUIDELINES

The resin should be stored indoors in the original, unopened and undamaged packaging, in a dry place at temperatures between 5°C and 30°C and the properties might change during storage. Shelf life is reduced at higher temperatures and the properties of the resin might change during storage. The shelf life of styrene containing unsaturated polyesters will be significantly reduced when exposed to light. Store in dark and in 100%light tight containers only.

MATERIAL SAFETY

A Material Safety Data Sheet of this product is available on request.

TEST METHODS

Test methods (TM) referred to in the table(s) are available on request.

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PRODUCT INQUIRY? PLEASE CLICK HERE

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