

BEYONE™ 820-H-01

CHEMICAL/PHYSICAL NATURE

Beyone™ 820-H-01 is a modified solution of polystyrene in styrene.

MAJOR APPLICATIONS

Beyone™ 820-H-01 is used as a low shrink additive in SMC and BMC. Depending on the selection of the Polyester resin type and the ratio of such resin to Beyone™ 820-H-01, low to zero shrinkage can be obtained. The unique formulation of Beyone™ 820-H-01 thus enables making fully pigment able, zero shrinkage, low profile quality parts with high gloss.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Viscosity, 23°C	3750 - 4450	mPa.s	2013
Solids content, IR	38.5 - 41.5	%	2033 B
Appearance	Hazy	-	2265

REMARKS

TM 2013: Z3/100s⁻¹/23°C

PRELIMINARY PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Density, 23°C	950	kg/m ³	2160
Flash point	33	°C	2800
Shelf life, no init., dark, 25°C	12	months	-

TYPICAL STARTING SMC FOR ZERO SHRINKAGE SMC

Component	Weight
Palapreg® P18-03	57
Beyone™ 820-H-01	43
BYK 9076	0.75
BYK 9010	2
TBpB	1.5
Styrene	5
Millicarb	200
Calcium stearate	4.5
Pigment paste	6 - 8
Luvatol MK35	2.5

PROCESSING

Beyone™ 820-H-01 can be processed into SMC and BMC formulation, together with an Ortho-type resin (e.g. Palapreg® P178-01) or for even better results Palapreg® P18-03.

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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