

Technical Information



ALTUGLAS™ BS 440

Overview

ALTUGLAS® BS 440 is a methyl-methacrylate based copolymer available in the form of spherical particles (solid beads). Some free methacrylic acid groups are dispersed all along the chain of the copolymer. ALTUGLAS® BS 440 is recommended as low shrinkage additive for Unsaturated Polyester Curable Resin (UPR) in main industrial processes as BMC/SMC.

The free acid functions contained in ALTUGLAS® BS 440 offer the specific advantage to react with basic oxides fillers with thickening effect, typical in SMC process of UPR.

ALTUGLAS® BS 440 can also be used in acrylic mineral composite to improve the compatibility with some minerals and fillers.

Physical	Nominal Value (English)	Nominal Value (SI)
Apparent (Bulk) Density	0.70 g/cm ³	0.70 g/cm ³
Intrinsic Viscosity	0.48 to 0.53 dl/g	0.48 to 0.53 dl/g
Acid Value	8.00 to 11.00 mg KOH/g	8.00 to 11.00 mg KOH/g
Particle Size	3.94 to 9.84 mil	100 to 250 µm
Viscosity		
Solvent (30%w MEK)	450 mPa·s	450 mPa·s
Solvent (30%w MMA)	950 mPa·s	950 mPa·s
Solvent (30%w STY)	1200 mPa·s	1200 mPa·s
Volatiles	< 1.0 %	< 1.0 %
Thermal	Nominal Value (English)	Nominal Value (SI)
Glass Transition Temperature	212 °F	100 °C
Additional Information	Nominal Value (English)	Nominal Value (SI)
Residual Monomer	< 0.50 %	< 0.50 %

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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