

Technical Datasheet

Ashland Performance Materials



ENGUARD™ GE // H/ HH/ S General purpose gelcoats

ENGUARD GE gelcoats are high quality general purpose gelcoats based on isophthalic polyester resin. The base resin and the gelcoat formulas are optimized to give final products good mechanical and weathering properties.

Typical properties of liquid gelcoat

Property at 23 °C	H (Brush)	HH (Brush; high viscosity)	S (Spray)		
	Value	Value	Value	Unit	Method
Viscosity, Brookfield	11000 ¹⁾	22000 ²⁾	7000 ³⁾	mPas	ISO 2555
Viscosity, cone & plate	800		230	mPas	ISO 2884
Geltime, 2,0% MEKP-50	13	13	7	min	ASTM D2471

1) 4RV,10rpm; 2) 7RV,10rpm ; 3) 5RV,10rpm

Typical properties of gelcoat base resin

Property (postcure 24 h at 50 °C)	Value	Unit	Method
Tensile strength	70	MPa	ISO 527
Tensile modulus	3600	MPa	ISO 527
Elongation at break	3,5	%	ISO 527
Flexural strength	115	MPa	ISO 178
Flexural modulus	3500	MPa	ISO 178
Heat deflection temperature	70	°C	ISO 75 (A)
Water absorption at 28 days	80	mg/sample*	ISO 62
Hardness	42	Barcol	ASTM D2583

* 50x50x4 mm

Application and use

ENGUARD GE gelcoats are general purpose gelcoats, which are suitable for use in variety of products in the building and construction industry, transportation and marine industry.

Certificates and approvals

ENGUARD GE gelcoat complies with the requirements set by classification societies like Det Norske Veritas, Lloyd's Register and Germanischer Lloyd's for building of small crafts

The manufacturing, quality control and distribution of products, by Ashland Performance Materials, are complying with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001.



Responsible Care*

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Handling and use For good handling and working practices, see Ashland "Gelcoat Handling Guide". It is highly recommended that all materials are stored at stable temperature under 25 °C preferably indoors, and away from direct sunlight. A high quality methyl ethyl ketone peroxide (MEKP) catalyst should be used between 1.5 - 2.5%. The gelcoat with the catalyst must be gently stirred before taken in use.

Shelf life of ENGUARD GE gelcoats is 5 months.
Prolonged storage or storage outside of recommended conditions can influence gelcoat liquid properties like viscosity and gel time and it is recommended to test these properties before starting application.

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