

TECHNICAL DATA SHEET

ENCOR[®] 1159 S (Formerly E10059)

Acrylic dispersion



Formaldehyde-free*

PRODUCT APPLICATION DETAILS

ENCOR[®] 1159 S is a low T_g self-crosslinking APEO free acrylic dispersion that finds application in the consolidation and finishing of nonwovens as well as for textile applications.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	44 - 46 %	ISO 3251
pH	6.0 - 7.0	ISO 976
Viscosity (Brookfield RVT, 20rpm) (23°C)	20 - 200 mPa.s	ISO 2555

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Stabilizing system	A	-
Glass transition temperature	-26 °C	DSC
Density	1.05	ISO 2811
Average particle size	200 nm	ISO 13321

*Product formulated without formaldehyde or formaldehyde releasers. During normal conditions of use, this binder does not generate formaldehyde.
¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS

Coatings & Inks

- Textile & Leather Coating
 - Non Woven
 - Textile

PERFORMANCE BENEFITS

- Softness with excellent mechanical properties
- Limited tackiness despite its very low T_g
- Suitable for foaming applications
- Excellent affinity to glass fibers

FORMULATION GUIDELINES

ENCOR[®] 1159 S crosslinks at a speed depending on the thermal treatment, we suggest 120°C as minimum curing temperature.

We suggest balancing the thermal treatment in order to achieve the optimal mechanical and applicative properties.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

ENCOR[®] 1159 S should be stored indoors in the original, unopened and undamaged container, in a dry place at storage temperatures between 5°C and 30°C. Exposure to direct sunlight should be avoided. The product is protected to prevent any microbial deterioration during normal conditions of storage but care should be taken to avoid accidental contamination during subsequent handling and processing. In the above mentioned storage conditions the shelf life of the resin will be from the shipping date.

Shelf Life (Months): 6

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