

TECHNICAL DATA SHEET

SYNOLAC® 152S-60

Oil free polyester

PRODUCT APPLICATION DETAILS

SYNOLAC® 152S-60 is a good quality, linear oil free polyester resin developed for use in nonyellowing tube coating.

SYNOLAC® 152S-60 is recommended to use as sole medium in roller coating and tube coating enamels.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 150°C, 1gm, 1hr)	58 - 62 %	ISO 3251
Viscosity (50% Aromatic Solvent 100/Butyl Glycol, FCB-4) (at 30°C)	150 - 300 s	
Color	3 max Gardner	ISO 4630
Acid value	15 max mg KOH/g	ISO 2114
Hydroxyl value	45 - 55	

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Volatile	Aromatic Solvent 200/Butyl Glycol	
Density (at 20°C)	1.11 g/ml	ISO 2811

Acid value and/or Hydroxyl value quoted relative to solid resin

¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS

Coatings & Inks

- Industrial Coating
 - Packaging Coating Metal (Can And Others)

PERFORMANCE BENEFITS

- Excellent deep drawing properties
- Excellent gloss and gloss retention
- Non Yellowing
- Excellent color and color retention

SYNOLAC® 152S-60

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

In pigmented roller coating enamels, SYNOLAC® 152S-60 is compatible with a wide range of melamine resins and is typically used with hexamethoxymethyl melamine resin and partially methylated melamine. For an optimum performance with respect to level of cure, flexibility, hardness, and impact resistance, a combination of SYNOLAC® 152S-60 with hexamethoxymethyl melamine resin at ratio of 70:30 to 85:15 on solid resin content is suggested.

To promote cure the use of between 1 - 5% of acid catalyst is recommended, e.g. paratoluene sulphonic acid calculated on melamine solids. Variation in the levels of SYNOLAC® 152S-60 and the type of amino resin will modify the overall performance characteristics of the coating.

Increasing the level of amino resin and catalyst will generally tend to increase the hardness and solvent resistance of the coating but may compromise flexibility.

For tube coating applications 85:15 to 80:20 ratio, on solids with hexamethoxymethyl melamine resin is recommended with 2% pTSA catalyst on amino resin level.

Enamels or clear varnishes based on SYNOLAC® 152S-60 will normally baked in the range of 15 minutes at 150°C and 10 minutes at 170°C.

USES:

SYNOLAC® 152S-60 is use for roller coating and tube coating enamels.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 152S-60 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 30°C. Exposure to direct sunlight should be avoided. In the above mentioned storage conditions the shelf life of the resin will be from the date of manufacturing.

Shelf Life Durability (Months): 12

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