

# SYNOLAC<sup>®</sup> 152S-60

ARKEMA COATING RESINS

## Product

SYNOLAC<sup>®</sup> 152S-60 is a good quality, linear oil free polyester resin developed for use in non-yellowing tube coating.

## Application details

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

## Performance

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

## Polymer Type

- Solvent borne Polyester

## Sales Specifications

% Solid Content (at 150°C, 1gm, 1hr,) (ISO 3251)	58 - 62
Viscosity in seconds at 30°C, (FCB-4, 50% in Solveso 200/ Butyl Glycol (85:15))	250 - 300
Colour, Gardner scale (ISO 4630)	3 Max
Acid value, mg KOH/g (ISO 2114)	15 Max

## Other Characteristics<sup>1</sup>

Volatile	Solveso 200 / Butyl Glycol (85:15)
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.11
Hydroxyl Value	50

Note: Acid value and oil length quoted relative to solid resin

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

## RECOMMENDATIONS FOR USE

## Formulation Guidelines

In pigmented roller coating enamels, SYNOLAC<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 152S-60 will normally baked in the range of 15 minutes at 150°C and 10 minutes at 170°C.

### USES:

SYNOLAC<sup>®</sup> 152S-60 is use for roller coating and tube coating enamels.

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**Product Safety**

Please refer to the corresponding Safety Data Sheet

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**Storage & Handling**

SYNOLAC<sup>®</sup> 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. Under the above mentioned storage conditions the shelf life of the resin will be 12 months from the date of manufacturing.

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