MACRYNAL® SM 510n/60LGV5

PRELIMINARY PRODUCT INFORMATION

TYPE

Hydroxy functional acrylic resin designed for crosslinking with polyisocyanates

FORM OF DELIVERY (f.o.d.)

60 % in solvent mixture (60LGV5)

DEVELOPMENT PRODUCT

This product is serving for trial purposes only. Deviations which might occur during transfer into manufacturing in a commercial scale are possible and do not constitute any material defect.

Average hydroxyl content (solid resin)

ca. 4.5 %

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219		
dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	5000 - 10000
Colour Scale (Hazen) DIN EN ISO 6271-1		
Hazen colour value		<= 30
Hydroxyl Value (cat.) DIN EN ISO 4629		
hydroxyl value (solids; pot)	[mg KOH/g]	140 - 155
Non-Volatile Matter DIN EN ISO 3251		
non-volatile matter (1 h; 125 °C; 2 g; EAC)	[%]	58 - 62

Not continually determined:

Density (Liquids) DIN EN ISO 2811-2		
density		
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density approx. (20 °C)	[g/cm³]	1,10
Flash Point (CCCFP) ASTM D 6450		
flash point	[°C]	37

SPECIAL PROPERTIES

Macrynal SM 510n/60LGV5 contains approx. 18 % parachlorobenzotrifluoride (PCBTF) as a co-solvent to allow formulation of 2.1 lbs/gal VOC coatings in regions and countries where PCBTF is listed as VOC exempt* solvent.

SUGGESTED USE

Air drying and force air drying two pack systems intended primarily for use in automotive refinish coatings.

Benefits are:
- refinish clear coats having 2.1 lbs/gal VOC are possible when formulated with exempt* solvents
- quick hardness development
- excellent outdoor durability
- very good mechanical properties and chemical resistance

* Consult appropriate regulatory authorities for actual status of locally valid VOC regulations.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 730 days.

DISTINGUISHING FEATURES

Macrynal SM 510n/60LGV5, in contrast to other forms of delivery of Macrynal SM 510n, is partially diluted in PCBTF.

REMARK:

Data contained in this publication are based on careful investigations (and are intended for information only). Due to scale up of this product there is not yet sufficient experience concerning serial production. We can therefore not exclude, that based on future knowledge product data and other indicated properties in upcoming Technical Data Sheets will be subject to change. We reserve the right to leave the product name unchanged, even if product data or other indicated properties will vary from the present product info. Regardless of the data contained in this publication any user is obliged to carry out tests under his own responsibility as to the suitability of the product for a particular use and to investigate the possible violation of industrial property rights of third parties. Information is therefore not binding and cannot be construed as guaranteeing specific properties of products. We apply our General Sales Conditions.

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