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Evonik Röhm GmbH, Darmstadt, Germany

## DEGALAN® Printing Inks



## DEGALAN®



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**Evonik. Power to create.**

DEGALAN® methacrylic resins have proved their suitability for many years as binders for formulating printing inks.

They are noted in particular for their universal solubility, excellent chemical resistance, lightfastness and good compatibility with other printing ink raw materials and pigments.

Their good adhesion to various substrates such as plastics, paper, textiles and metal, and favorable properties as mixing components in UV printing inks make it possible to process DEGALAN® methacrylic resins by means of various printing processes.

DEGALAN® has shown itself to be especially suitable for printing packaging materials.

## Choose the right DEGALAN® type for your substrate

### Plastic Substrates (PVC, PS, PC, PMMA, ABS etc.)

DEGALAN® M 825 DEGALAN® M 748 DEGALAN® M 345 DEGALAN® MB 319 DEGALAN® LP 53/13 DEGALAN® LP 66/02 DEGALAN® 66/02 N* DEGALAN® VP 1034 F	These hard methacrylic resins that dissolve particularly well in esters are distinguished by their good chemical resistance (to grease and gasoline), good adhesion and lightfastness. The good plasticizer barrier effect when coating plasticized PVC is particularly noteworthy. Combination of the printing inks with DEGALAN® MB 319 makes it possible to vary their hardness and flexibility without negatively influencing the plasticizer barrier effect.  DEGALAN® M 748, for example, can be usefully combined with PVC copolymers resins to improve chemical resistance.  Formulation: V 1129, V 1130
DEGALAN® N 742 N	This resin is characterized by good solubility in alcohol. A combination with cellulose derivatives and alcohol-soluble nitrocellulose is also possible.  Formulation: V 1124, V 1126
DEGALAN® PM 381 N DEGALAN® LP 64/12 DEGALAN® P 24 DEGALAN® P 26 DEGALAN® P 24 N*	These methacrylic resins of medium hardness, readily soluble in esters and blendable with alcohol, are distinguished by their good hardness, elasticity and lightfastness. They can often be used without adding plasticizers.  They are compatible with ester-soluble nitrocellulose.  Formulation: V 1056
DEGALAN® 4800 L	This solution of a methacrylic resin that can be crosslinked with DESMODUR® N or L provides abrasion- and chemical-resistant films that adhere particularly well to PVC copolymers. DEGALAN® 4800 L is especially suitable as overprinting varnish.  Technical Information: V 1254, V 1255

### Metal Substrates

DEGALAN® PM 381 N DEGALAN® LP 65/12 DEGALAN® LP 64/12 DEGALAN® PM 709	These medium-hard methacrylic resins provide films that adhere well to metal. To improve the adhesion to metal, it is advisable to use a combination of epoxy resins, PVC copolymers and additional external plastification.
DEGALAN® DV 657	The solution of a heat-curable acrylic resin can be employed as an overprinting varnish, e.g. on aluminum. The combination of DEGALAN® DV 657 with melamine resins offers gasoline-resistant coatings and enables crosslinking even at 120° to 130° C.

\* Available in Asia-Pacific region only

### Polyolefinic Substrates like PP, PE etc.

DEGALAN® P 28 N DEGALAN® M 748	It is useful to treat the substrates by corona pretreatment and apply a primer to obtain adequate adhesion. Acrylic resins show not sufficient adhesion on these untreated substrates. To formulate a primer onto these difficult substrates it is proven to combine DEGALAN® P 28 N or DEGALAN® M 890 with chlorinated polyolefins such as Trapylen 130 S or Eastman Kodak CP 343-1.
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### Paper Substrates

DEGALAN® N 742 N DEGALAN® P 24 DEGALAN® P 28 N DEGALAN® PQ 611 N DEGALAN® P 24 N*	Suitable grades for these are the alcohol-soluble acrylic resins DEGALAN® N 742 N, DEGALAN® P 24, DEGALAN® P 24 N or the equally alcohol-soluble DEGALAN® P 28 N. DEGALAN® PQ 611 N, which is soluble in pure aliphatic solvents, is another option.
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### Special Applications

DEGALAN® M 726	DEGALAN® M 726, a crosslinked methacrylic resin that is insoluble in solvents, can be used as a flattening agent and antiblocking additive. It is particularly recommended for use as additive in finishing lacquer for PVC as antiblocking additive.
DEGALAN® PQ 611 N	DEGALAN® PQ 611 N is soluble in mineral oil and can therefore be used for newspaper printing (offset inks).
DEGALAN® VP 1018 F	Highly heat-resistant acrylic resin for IMD screen printing inks.
DEGALAN® 1040 L	For flexographic printing inks, especially for PET substrates.

### UV Printing Inks

DEGALAN® PQ 611 N DEGALAN® MB 319 DEGALAN® LP 64/12 DEGALAN® P 28 N DEGALAN® PM 381 N	DEGALAN® PQ 611 N, DEGALAN® MB 319, DEGALAN® P 28 N, DEGALAN® LP 64/12 and DEGALAN® PM 381 N have proved suitable as additives to UV-curable lacquers.  They improve adhesion to metals and plastics and successfully reduce shrinkage of the coating films. To improve adhesion on BOPP substrates DEGALAN® PQ 611 is recommend. For metal substrates use DEGALAN® LP 65/12. For universal use DEGALAN® LP 64/12 is advisable.
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