

Product Information

DEGACRYL® HS 4799 L

Solvent-based polymer solution for heat seal lacquers

PRODUCT DESCRIPTION

Solvent-based methacrylic solution designed for coating on aluminum when co-formulated with PVC. Typical applications are easy opening systems such as specific medical packaging. Along with smooth peel properties, it can be sealed with all common polar substrates like PS or PVC.

Typical Properties

Property	Unit	Value
Chemical Name		Organic solution of an acrylic polymer based on ethyl methacrylate
Density DIN EN ISO 1183-1	g/cm ³	1.03
Flash Point, min. DIN EN ISO 1523	°C	-4
Glass Transition Temperature DIN EN ISO 11357-1	°C	48
Molecular Weight DIN 55672-1	g/mol	80,000
Solvent		ethyl acetate
Viscosity Dynamic Viscosity DIN EN ISO 3219	mPa·s	1400-4000
Viscosity Number DIN EN ISO 1628-1	cm ³ /g	40

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Usage as binder for heat-seal lacquers, especially easy-opening systems for sealing aluminum foil to PVC and polystyrene

- Food packaging (e.g. easy peel packaging, foil lid packaging, foil to foil applications)
- Pharmaceutical packaging (e.g. easy peel packaging, foil to foil applications)

Product Composition

Product Composition	Unit	Value
Solids Content	%	53-57
DIN EN ISO 3251		

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

- excellent seal and peel properties on aluminum foil
- outstanding smooth peel effect
- easy opening behavior for specific applications
- economical and environmental friendly packaging solutions

DOSAGE

We are pleased to send guideline formulations.

HANDLING & PROCESSING

General

Binder for heat-seal lacquers, especially easy-opening systems for sealing aluminum foil to PVC and polystyrene for food packaging.

Drying

After brief airing, 15 seconds at 180 °C under lab conditions.

Dilutability

DEGACRYL® HS 4799 L can be diluted with esters, ketones and aromatic compounds. It can be blended with alcohols.

Compatibility

DEGACRYL® HS 4799 L is compatible with nitrocellulose, cellulose acetobutyrate, various vinyl resins and most plasticizers. It is incompatible with most alkyd, urea and melamine resins.

Hints for application

In order to ensure the adhesion to aluminum foil, the latter should be primed (1 - 2 g per sqm dry film thickness) with a PVC copolymer, e.g. Vinnol® H 15/45 M from Wacker Chemie or combined in the ratio of 80/20 (solid to solid). Recommended dry film thickness of DEGACRYL® HS 4799 L is 7 g per sqm.

PACKAGING

Open top steel drums: 175 kg net

Recycable IBC with PE insert: 850 kg net

STORAGE

Stored tightly closed in a cool place.

SHELF LIFE

1 year after date of delivery under above mentioned storage conditions.

Disclaimer

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