

Product Information

DEGACRYL® HS 4302 E

Solvent-based binder for heat seal lacquers for pharmaceutical blister packaging and other applications

PRODUCT DESCRIPTION

Solvent-based binder for heat seal lacquers designed for direct coating of aluminum or PET. Together with smooth peel properties, DEGACRYL® HS 4302 E can be used for tight sealing with all common polar and non-polar substrates like PS, PET, PE or PP. DEGACRYL® HS 4302 E is compliant to HAPs regulations.

Typical Properties

Property	Unit	Value
Chemical Name		Organic dispersion of copolymers on methacrylic esters and olefinic basis
Density DIN EN ISO 1183-1	g/ml	0.93
Flash Point, min. DIN EN ISO 1523	°C	-4
Glass Transition Temperature DIN EN ISO 11357-1	°C	-46
Glass Transition Temperature DIN EN ISO 11357-1	°C	65
Molecular Weight DIN 55672-1	g/mol	235,000
Solvent		n-propyl acetate / ethyl acetate / n-heptane / tert-butyl acetate 61 / 29 / 5 / 5
Viscosity Dynamic Viscosity DIN EN ISO 3219	mPa·s	800-3500
Viscosity Number DIN EN ISO 1628-1	cm ³ /g	26

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Usage as a binder for heat seal lacquers with direct adhesion for sealing untreated PET film or aluminium foil versus poly-propylene, polystyrene, PET, PLA or vinyl.

- DEGACRYL® HS 4302 E based coatings can be applied with rotogravure or (semi) flexo printing.
- Pharmaceutical packaging (e.g. push through blister, sachet packaging, easy peel packaging, foil to foil applications) for dry filling goods.

Product Composition

Product Composition

Unit

Value

Solids Content

%

49-52

DIN EN ISO 3251

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

- excellent seal and peel properties on aluminum foil or film structures
- direct adhesion on aluminum foil and PET film
- wide property range: from easy opening to high sealing strength
- multi-purpose sealing capabilities to various substrates
- economical and environmental friendly packaging solutions

DOSAGE

We are pleased to send guideline formulations.

HANDLING & PROCESSING

General

Organic dispersion with the usage as binder for heat seal lacquers for sealing aluminum or PET film versus polypropylene, polyethylene, polystyrene, polyethylene terephthalate or aluminum.

Before processing

DEGACRYL® HS 4302 E must be stirred well, since storage can lead to phase separation. Recommendation to use complete material (full packaging size) for final heat seal lacquer formulation.

Dilutability

DEGACRYL® HS 4302 E is dilutable with esters and ketones.

Drying

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

Hints for application

A heat seal lacquer based on DEGACRYL® HS 4302 E is directly applicable to aluminum or PET. Priming is not mandatory necessary. DEGACRYL® HS 4302 E is designed for dry filling goods in push-trough-packaging.

Recommended dry film thickness of DEGACRYL® HS 4302 E is 3.5-7 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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