DEGACRYL®

Product Information

DEGACRYL® HS 4322 E

Solvent-based binder for heat seal lacquers

PRODUCT DESCRIPTION

Solvent-based binder for heat seal lacquers designed for PET lidding. Along with smooth peel properties, it can be sealed with all common polar substrates like PS, PET or PVC. It can be the solution for PVC-free packaging and support mono-PET designs for recycling.

Typical Properties

Property	Unit	Value
Chemical Name		Organic dispersion of copolymers on methacrylic esters, olefinic and polyester basis
Density DIN EN ISO 1183-1	g/ml	0.96
Flash Point, min. DIN EN ISO 1523	°C	-3
Glass Transition Temperature DIN EN ISO 11357-1	°C	57
Haze ASTM D1003-13	%	<10
Molecular Weight DIN 55672-1	g/mol	68,000
Solvent		n-Propyl acetate / Methyl ethyl kentone / i-Propanole 75 / 19 / 6
Viscosity Dynamic Viscosity DIN EN ISO 3219	mPa·s	2000-8000
Viscosity Number DIN EN ISO 1628-1	cm^3/g	48

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Usage as a binder for transparent heat seal lacquers with direct adhesion for sealing untreated PET film or aluminum foil versus polystyrene, PET, PLA or vinyl.

- Food packaging (e.g. easy or strong peel packaging, PVC-free packaging, foil or film lid packaging, foil to foil applications)
- Pharmaceutical packaging (e.g. push through blister, sachet packaging, easy peel packaging, foil to foil applications)

Product Composition		
Product Composition	**Unit**	**Value**
Solids Content DIN EN ISO 3251	%	39-41

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

- excellent seal and peel properties on aluminum foil or film structures
- direct adhesion on PET film
- outstanding smooth peel effect
- 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 polystyrene, polyethylene terephthalate or vinyl.

Before processing

DEGACRYL® HS 4322 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 4322 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 4322 E is directly applicable to aluminum, PET or paper. Primering is not mandatory necessary. The final heat seal coating offers high clarity/low haze.

Recommended dry film thickness of DEGACRYL® HS 4322 E is 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.

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