

Product Information

DEGACRYL® HS 4296 E

Solvent-based binder for heat seal lacquers

PRODUCT DESCRIPTION

Solvent-based binder for heat seal lacquers designed for direct coating of aluminum or PET with low blocking behavior. Along with smooth peel properties, it can be sealed with all common polar and non-polar substrates like PS, PET or PP. DEGACRYL® HS 4296 E is compliant to HAPs regulations.

Property	Unit	Value	
Chemical Name		Organic dispersion of copolymers on methac- rylic esters, olefinic and polyester basis	
Density	g/ml	0.94	
DIN EN ISO 1183-1			
Flash Point, min.	°C	-4	
DIN EN ISO 1523			
Glass Transition Temperature	°C	-55	
DIN EN ISO 11357-1			
Glass Transition Temperature	°C	63	
DIN EN ISO 11357-1			
Molecular Weight	g/mol	120,000	
DIN 55672-1			
Solvent		n-propyl acetate / ethyl acetate / n-heptane , tertbutyl acetate 64 / 26 / 5 / 5	
Viscosity	mPa·s	800-3500	
Dynamic Viscosity DIN EN ISO 3219			
Viscosity Number	cm³/g	109	
DIN EN ISO 1628-1			

TYPICAL APPLICATIONS

Usage as a binder for heat seal lacquers with direct adhesion for sealing untreated PET film or aluminum foil versus polypropylene, 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	%	50-53
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
- · 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 polypropylene, polyethylene, polystyrene, polyethylene terephthalate or vinyl.

Before processing

DEGACRYL® HS 4296 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 4296 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 4296 E is directly applicable to aluminum, PET or paper. Primering is not mandatory necessary.

Recommended dry film thickness of DEGACRYL® HS 4296 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.

Registry	Status
Australia (AIIC)	No
Canada (DSL)	Yes
Switzerland (ChemO)	Yes
Exemption only valid for specific importer.	
China (IECSC)	Information on Request
EU (REACH)	Yes
EU-REACH compliant for Evonik Operations GmbH and its affiliates as EU manufacturer/EU importer.	
Japan (ENCS)	Yes
South Korea (KECL)	No
Mexico (INSQ)	No
New Zealand (NZIoC)	No
Philippines (PICCS)	No
Taiwan (TCSI)	No
United States of America (TSCA)	Yes
ACTIVE: Commercial Status: Active	

Disclaime

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Operations GmbH

Coating & Adhesive Resins Paul-Baumann-Straße 1 45764 Marl Germany Phone +49 2365 49-4843 evonik.click/adhesive-resins

