

#### **Product Information**

# **DEGACRYL® HS 4151 E**

# Solvent-based binder for heat seal lacquers

#### **PRODUCT DESCRIPTION**

Solvent-based binder for heat seal lacquers designed for direct coating of aluminum. Along with smooth peel properties, it can be sealed with all common polar and non-polar substrates like PS, PET or PP. Its solvent composition is n-butyl acetate-free.

Property	Unit	Value  Organic dispersion of copolymers on methac rylic esters and olefinic basis	
Chemical Name			
Density	g/cm³	0.90	
DIN EN ISO 1183-1			
Flash Point, min.	°C	-12	
DIN EN ISO 1523			
Glass Transition Temperature	°C	-51	
DIN EN ISO 11357-1			
Glass Transition Temperature	°C	30	
DIN EN ISO 11357-1			
Molecular Weight	g/mol	300,000	
DIN 55672-1			
Solvent		n-propyl acetate / ethyl acetate/ isooctane 47.8 / 43.8 / 8.4	
Viscosity	mPa·s	500-2000	
Dynamic Viscosity DIN EN ISO 3219			
Viscosity Number	cm³/g	142	
DIN EN ISO 1628-1			

# **TYPICAL APPLICATIONS**

Usage as a binder for PVC-free heat seal lacquers with direct adhesion for sealing aluminum or PET film versus polypropylene, polystyrene 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	%	39-42
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, no need for adhesion promotor like PVC-terpolymer
- · outstanding smooth peel effectwide 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 primed PET film versus polypropylene, polyethylene, polyethylene terephthalate or vinyl.

# Before processing

DEGACRYL® HS 4151 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 4151 E is dilutable with esters and ketones.

#### Drying

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

Recommended dry film thickness of DEGACRYL® HS 4151 E 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.



Registry	Status
Australia (AIIC)	Yes
Canada (DSL)	Yes
China (IECSC)	Yes
EU (REACH)	Yes
$\ensuremath{EU-REACH}$ compliant for Evonik Operations GmbH and its affiliates as EU manufacturer/EU importer.	
Japan (ENCS)	Yes
South Korea (KECL)	Yes
Mexico (INSQ)	No
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
Pre-registration is requested for specific importer.	
Taiwan (TCSI)	Yes
United States of America (TSCA)	Yes
ACTIVE: Commercial Status: Active	

#### Disclaimer

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