

# LOTRYL<sup>®</sup> BESTPEEL 2012

## PROVISIONAL DATA SHEET

Versatile heat seal resin for peelable applications

### DESCRIPTION

LOTRYL<sup>®</sup> BESTPEEL 2012 is a ready-to-use thermoplastic composition designed to make peelable heat seal layers onto various substrates. The base resin is a random copolymer of ethylene and methyl acrylate, polymerized by high-pressure process in autoclave reactor. Modification is introduced to ensure the best processability in the different film technologies, and the suitable properties in heat sealing and peeling.

### MAIN PROPERTIES

Characteristics	Typical Value <sup>(3)</sup>	Unit	Test Method
Methyl Acrylate content	20	% Wt	FTIR (Internal method)
Melt Index (190°C / 2.16 kg)	11	g/10min	ISO 1133 / ASTM D1238
Density	0.95		ISO 1183 / ASTM D792
Melting point	79	°C	ISO 11357-3
Vicat softening point (10N) <sup>(1)</sup>	42	°C	ISO 306 / ASTM D1525
Elongation at break <sup>(1)</sup>	>700	%	ISO 527-2 / ASTM D638
Tensile strength at 700% <sup>(1)</sup>	8.7	MPa	ISO 527-2 / ASTM D638
Flexural modulus	25	MPa	ISO 178 / ASTM D790
Hardness Shore A <sup>(1)</sup>	84	-	ISO 868 / ASTM D2240
Hardness Shore D <sup>(1)</sup>	21	-	ISO 868 / ASTM D2240
Haze <sup>(2)</sup>	10	%	ASTM D1003

(1) On compression molded samples.

(2) On a 50µm monolayer film.

(3) Data from first industrial production. Some data will be confirmed after 3 industrial productions.

### APPLICATIONS

LOTRYL<sup>®</sup> BESTPEEL 2012 is used as top layer of laminates in order to provide the functions of *heat sealability* onto various substrates like PP, PS, PET and PVC, and *easy opening* by interfacial peeling. In the case of transparent structures, it maintains *high clarity* with low haze.

LOTRYL<sup>®</sup> BESTPEEL 2012 is easily processed using the technologies of coextrusion coating, cast film coextrusion, blown film coextrusion or sheet coextrusion, to produce multilayers that can be used as lids, either directly or after lamination with other films.

For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.

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## PROCESSING

**LOTRYL® BESTPEEL 2012** is processed with standard polyolefin extrusion equipment. It is not corrosive and its processability is similar to that of LDPE. Temperatures can be chosen in a very wide range. Usual recommendations start from 170°C in blown film extrusion, up to 300 – 310 °C in extrusion coating, thanks to the excellent heat stability of acrylate comonomer.

The composition of **LOTRYL® BESTPEEL 2012** has been specifically designed to overcome the processing issues that are usually critical with tacky resins in film technologies, like chill roll release, blocking, bubble splitting and slip properties. **LOTRYL® BESTPEEL 2012** is proposed as a ready-to-use resin with outstanding processability at both extrusion and downstream stages.

Purging **LOTRYL® BESTPEEL 2012** is readily achieved with LDPE, and it is recommended to do it before shutdown.

## STORAGE, HANDLING AND SAFETY

**LOTRYL® BESTPEEL 2012** should be stored in standard conditions and protected from UV-light. Improper storage conditions may cause degradation and could have consequences on physical properties of the product.

Safety data sheet as well as information on handling and storage of the **LOTRYL® BESTPEEL 2012** is available upon request to your ARKEMA representative or on the web site [lotryl.com](http://lotryl.com).

## SHELF LIFE

Two years from the date of delivery, in unopened packaging. For any use above this limit, please refer to our technical services.

March 2018

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