

# LOTRYL® BESTPEEL 2407

## Versatile heat seal resin for peelable applications

### DESCRIPTION

**LOTRYL® BESTPEEL 2407** is a ready-to-use thermoplastic composition designed to make peelable heat seal layer 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.

### TYPICAL PROPERTIES

Characteristics	Value	Unit	Test Method
Methyl Acrylate content	22 - 25	% Wt	FTIR (Internal method)
Melt Index (190°C / 2.16 kg)	1 - 3	g/10min	ISO 1133 / ASTM D1238
Density (23°C)	0.94	g/cm <sup>3</sup>	ISO 1183 / ASTM 1505
Melting point	68	°C	ISO 11357-3
Flexural modulus <sup>(1)</sup>	12	MPa	ISO 178 / ASTM D790
Elongation at break <sup>(1)</sup>	800	%	ISO 527-2 / ASTM D638
Hardness Shore A <sup>(1)</sup>	79	-	ISO 868 / ASTM D2240

<sup>(1)</sup> On compression molded samples.

### APPLICATIONS

**LOTRYL® BESTPEEL 2407** 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.

**LOTRYL® BESTPEEL 2407** is easily processed using the technologies of 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.

### PROCESSING

**LOTRYL® BESTPEEL 2407** is processed with standard polyolefin extrusion equipment. It is not corrosive and its processability is similar to that of LDPE.

The composition of **LOTRYL® BESTPEEL 2407** 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 2407** is proposed as a ready-to-use resin with outstanding processability at both extrusion and downstream stages.

Purging **LOTRYL® BESTPEEL 2407** is readily achieved with LDPE, and it is recommended to do it before shutdown.

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## HEAT SEALING AND PEELING PROPERTIES

**LOTRYL® BESTPEEL 2407** can be used as peelable heat seal layer in many kinds of lid constructions, based on aluminum foil, plastic films, paper, or a combination of them.

As examples of constructions:

Reverse printed bi-oriented film / adhesive / LDPE / BESTPEEL 2407

Aluminum / adhesive / LDPE / BESTPEEL 2407

Such constructions are heat sealable onto PP, PS, APET and PVC. Sealing strength is dependent on factors related to the different materials involved (heat conductivity, thicknesses) and to technological parameters like shape of the sealing tools, actual pressure, and time.

As general recommendations, flat sealing bars and moderate pressure should be preferred for better results and less squeezing of the sealing layer. Sealing temperature should be in the range from 160-180°C to 220-240°C, depending on heat conductivity of the whole structure and on contact time.

## STORAGE, HANDLING, SAFETY AND FOOD STATUS

**LOTRYL® BESTPEEL 2407** 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 2407** 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.

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