SK functional polymer

Technical Data Sheet
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LOTRYL® BESTPEEL 2012

LOTRYL® 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 ethylene-methyl acrylate copolymer.

- 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.
- 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, directly or after lamination with other films.

Typical Properties

	Test Method	Unit	Typical Value
Methyl Acrylate Content	FTIR (internal method)	%wt.	20
Melt Index (190°C/2.16kg)	ISO 1133	g/10min.	11
Melting Point	ISO 11357	°C	79
Density	ISO 1183		0.94
Vicat Softening Temperature (10N)[1]	ISO 306	°C	42
Flexural Modulus[1]	ISO 178	MPa	25
Elongation at Break[1]	ISO 527 / ASTM D638	%	>700
Tensile Strength at break at 700%[1]	ISO 527 / ASTM D638	MPa	8.7
Hardness Shore A[1]	ISO 868 / ASTM D2240		84
Hardness Shore D[1]	ISO 868 / ASTM D2240		21
Haze[2]	ASTM D1003	%	10

[1]: On compression molded samples.
[2]: On 50 µm monolayer film.

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 achieved with LDPE, and it is recommended to do it before shutdown.

Storage, Handling & Safety

LOTRYL® BESTPEEL 2012 should be stored in a ventilated area, away from heat, humidity and direct sunlight. 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 are available upon request to your SK Functional Polymer representative or at www.sk-fp.com.

Shelf Life

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