

OREVAC® 18751

Polypropylene based tie resin for extrusion coating

DESCRIPTION

OREVAC® 18751 is a coextrusion coating adhesive based on a maleic anhydride modified polypropylene resin. It is available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyolefin.

TYPICAL PROPERTIES

Characteristics	Value	Unit	Test Method
Melt index (230°C / 2.16 kg)	41	g/10min	ISO 1133 / ASTM D1238
Melting point	160	°C	ISO 11357-3
Density	0.91	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening point (10N)	138	°C	ISO 306 / ASTM D1525
Tensile modulus ⁽¹⁾	650	MPa	ISO 527-2 / ASTM D638
Tensile strength at yield ⁽¹⁾	22	MPa	ISO 527-2 / ASTM D638
Elongation at break ⁽¹⁾	500	%	ISO 527-2 / ASTM D638

⁽¹⁾ Measured on 25 µm films

APPLICATIONS

OREVAC® 18751 is a tie resin to be used in extrusion coating and extrusion lamination technologies. It has been designed to develop adhesion in these processes onto substrates like aluminum foil (*), paper or PP films and in coextrusion with resins like PP and PA.

OREVAC® 18751 exhibits excellent processing properties, particularly regarding drawability, neck-in and melt stability. In addition to adhesive properties, the special formulation of **OREVAC® 18751** allows to design aluminum lids for PP or PP coated cups and containers with controlled opening forces (**).

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

() Adhesion performance to aluminum foil is strongly dependant on thermal conditions in the laminator. Standard conditions of coating onto cold aluminum foil require using a specific post heating treatment in which the Orevac layer must be molten again.*

*(**) Compared to the other extrusion-coating grade **OREVAC® 18750**, **OREVAC® 18751** is slightly more crystalline, leading to lower fat uptake, higher elastic modulus, higher yield strength and thus, higher opening forces in lids applications.*

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PROCESSING

OREVAC® 18751 is not corrosive and is readily processed with standard polyolefin equipment. Conditions typically used in extrusion coating of polypropylene resins are suitable. Extrusion temperature settings could be:

Zone 1	Zone 2	Zone 3	Zone 4	Fittings-Channels	Die
200 - 220°C	220 - 250°C	250 - 275°C	275°C	275°C	275°C

Final profile and settings depend on the line and the multi-layer structure being run.

Although it is not necessary for short runs, it is recommended to dry OREVAC® 18751 pellets prior to extrusion in order to reduce die build-up during long runs. Typical drying conditions would be from 2 to 4 hours at 80-90°C under dry air. Transitions from or to LDPE are easily achieved.

STORAGE, HANDLING AND SAFETY

OREVAC® 18751 should be stored in dry conditions and protected from UV-light. Improper storage conditions may cause degradation and have consequences on physical properties of the product.

Safety data sheet as well as information on handling and storage of OREVAC® 18751 is available upon request to your ARKEMA representative or at orevac.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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