SK functional polymer

Technical Data Sheet
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OREVAC® 18750

OREVAC® 18750 is a maleic anhydride grafted polypropylene.

- OREVAC® 18750 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® 18750 exhibits excellent processing properties, particularly regarding drawability, neck-in and melt stability. In addition to adhesive properties, the special formulation of OREVAC® 18750 allows to design aluminum lids for PP or PP coated cups and containers with controlled opening forces.

Typical Properties

	Test Method	Unit	Typical Value
Melt Index (230°C/2.16kg)	ISO 1133 / ASTM D1238	g/10min.	35
Melting Point	ISO 11357-3	°C	160
Density	ISO 1183 / ASTM D1505	g/cm^3	0.92
Vicat Softening Temperature (10N)[1]	ISO 306 / ASTM D1525	°C	121
Tensile modulus[1]	ISO 527-2 / ASTM D638	MPa	500
Tensile strength at yield[1]	ISO 527-2 / ASTM D638	MPa	16
Elongation at break[1]	ISO 527-2 / ASTM D638	%	>700

[1]: On 25 µm films

Processing

OREVAC® 18750 is not corrosive and is readily processed with standard polyolefin equipment. Conditions typically used in extrusion of polypropylene resins are suitable. Typical 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® 18750 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.

Storage, Handling & Safety

OREVAC® 18750 should be stored in dry conditions 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 the OREVAC® 18750 is available upon request to your SK Functional Polymer representative.

Shelf Life

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