Orevac® 18751

Polypropylene Homopolymer

Arkema

Message:

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.
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 (**).
(*) 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.

General Information	
Features	Good Adhesion
	Good Drawdown
	Good Processability
	Good Thermal Stability
	High Melt Stability
	Non-Corrosive
Uses	Coating Applications
	Containers
	Cups
	Foil Coatings
	Laminates
	Paper Coatings
	Tie-Layer
Forms	Pellets
Processing Method	Coextrusion
	Extrusion Coating
	Laminating

Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238, ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (0.0250 mm)	650	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield, 0.0250 mm)	22.0	MPa	ASTM D638, ISO 527-2

Tensile Elongation (Break, 0.0250 mm)	> 500	%	ASTM D638, ISO 527-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	138	°C	ISO 306/A, ASTM D1525 [1]
Melting Temperature	160	°C	ISO 11357-3
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	
Cylinder Zone 1 Temp.	200 to 220	°C	
Cylinder Zone 2 Temp.	220 to 250	°C	
Cylinder Zone 3 Temp.	250 to 275	°C	
Cylinder Zone 4 Temp.	275	°C	
Die Temperature	275	°C	
NOTE			
1.	Loading 1 (10 N)		

Recommended distributors for this material

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