



Kimcross 1131

Tie Layer Adhesive

Product Discription

Kimcross 1131 is a high-performance maleic anhydride functionalized polyethylene produced by reactive extrusion. In tie layers for flexible packaging, Kimcross 1131 functional polyethylene promotes adhesion of polyethylene to barrier polymers such as polyamide and ethylene vinyl alcohol (EVOH) and other polar polymers. This grade is designed for blow molding or tube coextrusion.

Main Characteristics:

- ❖ Excellent adhesion polyethylene to polyamide and EVOH.
- ❖ Excellent physical and mechanical properties.

General			
Features	• Adhesion Durability	• Good Adhesion	• Excellent Processability
Uses	• Multilayer Tank		
Appearance	• Natural		
Forms	• Pellets		
Packaging	• 25 sacks		
Processing Method	• Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	1.5 ±0.5	g/10 min	ISO 1133

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	> 21.0	MPa	ISO 527
Tensile Stress (Yield)	>10	MPa	ISO 527
Tensile Strain (Break)	> 550	%	ISO 527

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ISO 306/A50

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ISO 868

Extrusion

As a guide the following temperature profile is recommended:

Zone 1	Zone 2	Zone 3	Zone 4	Head	Die	Melt Temp
140	150	160	170	185	195	210-230

Shelf life

Sacks should be stored in dry/closed conditions at a temperature below 50 °C and protected from UV /direct sunlight. Shelf life at proper storage is at least 18 months from the production date, but in case of a long storage time, potential moisture pick-up needs to be eliminated by drying before extrusion.

Note

- Test results have been achieved in lab condition. Miss handling may give the different result and sometimes outside of the standard
- The specifications given are the guidelines only.
- Above compound is suitable to run on different machines; however, some adjustments may be required on an individual machine.
- The customers are advised to check the quality, before commercial use. There is no guarantee and/or warranty what so ever, after processing

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