

TECHNICAL DATA SHEET

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Kimcross 1503

Polyethylene adhesive resin

Product Description

Kimcross 1503 is an anhydride-modified polyethylene acts as an adhesion promoter, which is designed for adhesion between PE and PA or EVOH in tube and bottle applications. Functionality of this polymer also promotes adhesion between metal, polyolefins, cellulose, polyester, polycarbonate, glass, and foil.

General					
Features · Adhesion Durability		· Good A	dhesion	· Excellent Process ability	
Uses	•	Multilayer Tube			
Appearance	•	Natural			
Forms	•	Pellets			
Packaging	•	25 sacks			
Processing Method	•	Extrusion			
Food contact approval		Yes			
Physical			Nominal Value	Unit	Test Method
Density			0.920 ± 0.005	g/cm³	ISO 1183
Melt Mass-Flow Rate (190 °C /2.16 kg)			$2.0\pm\!0.5$	g/10 min	ISO 1133
Oxidation Induction Time (210 °C)			>30	min	ISO 11357
Water content			< 0.1	%	ISO 15512
Mechanical			Nominal Value	Unit	Test Method
Tensile Stress (Break)			> 22	MPa	ISO 527
Tensile Stress (Yield)			>12	MPa	ISO 527
Tensile Strain (Break)			> 500	%	ISO 527
Thermal			Nominal Value	Unit	Test Method
Vicat Softening Temperature			105	°C	ISO 306/A50
Melt Temperature			125	°C	ISO 3146
Hardness			Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)			45±3	-	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	165	175	185	195	210-230

Shelf life

Sacks should be stored in dry/closed condition at temperature below 50 °C and protected from UV /direct sunlight. Shelf life at proper storage is at least 18 months from 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 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 individual machine.
- The customers are advised to check the quality, prior to commercial use. There is no guarantee and/or warrantee what so ever, after processing.

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