

TECHNICAL DATASHEET

BINDEX™ E-186 is a maleic anhydride modified linear low density polyethylene. With advanced anhydride grafting technology, this grade creates superb adhesion to metal, EVOH, PA and PE, while maintaining excellent processability.

Applications

- ❖ Designed for co-extrusion coating/lamination on paperboard or aluminium for PE based structures with PA and EVOH such as Lamitube.
- ❖ Adhesion and compatibility enhancer to substrates like metal, EVOH and PE etc. such as Aluminum Composite Panels.

Key Properties

General	Typical Value (SI)	Test Method
MFI (190 °C/2.16 Kg)	2.0 g/10min	ASTM D1238
Density	0.932 g/cm ³	ASTM D792
Bonded Maleic Anhydride	Medium (%)	PLUSS® method

Storage and Handling Procedures

BINDEX™ E-186 is mildly hygroscopic and should be stored in a dry, cool and well-ventilated area. It is recommended that prior to processing, the requisite quantity of material to be used should be dried in a hopper dryer or oven at 80-95 °C for about 2 hours for obtaining best results. Read and understand Material Safety Data Sheet (MSDS) for more detailed information on the safe handling and disposal of these speciality polymers.

Processing Conditions

A slight pungent odour is normal during processing of BINDEX™ E-186. During processing, the compounding parameters that can lead to optimized performance include extruder type, screw design, barrel temperature, screw speed, throughput, residence time and material feeding sequence. Maximum processing temperature should not generally exceed 280 °C. At temperatures above 280 °C, these speciality polymers can evolve low concentrations of fumes. If overheated, more extensive decomposition may occur due to exposure of overheated polymers to atmospheric oxygen. Adequate local ventilation should be provided to remove the fumes from the work area.

Packaging

BINDEX™ speciality polymers are supplied in pre-dried form in 25 Kg (55 lbs) PE lined, HD woven sack-laminated paper bags and 500 Kg (1102 lbs) FIBC's. Depending upon customer's requirement, the bags can be further palletized for dispatch. They should be stored in cool and dry place.

Pluss Advanced Technologies Pvt. Ltd.

610 A, Udyog Vihar, Phase V, Gurgaon – 122016, Haryana (India)
Tel: +91 124 4309490 / 91 / 92, Fax: +91 124 4309493, Email: info@pluss.co.in, Website: www.pluss.co.in

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