

# BindEX E-183 Speciality Polymers

## TECHNICAL DATA SHEET

BindEX E-183 is a maleic anhydride modified metallocene based linear low density polyethylene (mLLDPE) adhesive resin. It can be processed within different extrusion and co-extrusion technologies designed to process polyolefins. It is blendable with PP random copolymer up to 30% proportion.

### Applications

- Metal adhesion enhancer in metalized cast polypropylene films.
- Adhesion promoter between polyethylene or most of ethylene copolymers and polyamides and EVOH.

### Key Properties

General	Typical Value (SI)	Test Method
MFI (190 °C/2.16 Kg)	6.0 g/10min	ASTM D1238
Density	0.870 g/cm <sup>3</sup>	ASTM D792
Bonded Maleic Anhydride	Low	PLUSS <sup>®</sup> method
Yellowness Index	3.0	ASTM E-313
Melting Temperature	115 °C	DSC

Mechanical	Typical Value (SI)	Test Method
Tensile Strength @ Break	15.0 MPa	ASTM D638/2010
Elongation @ Break	700 %	ASTM D638/2010

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Hardness	Typical Value (SI)	Test Method
Durometer Hardness		
Shore D	43	ASTM D2240/ISO868
Shore A	98	ASTM D2240

### Storage and Handling Procedures

BindEX E-183 should be stored in a dry, cool and well-ventilated area protected from UV-light. Improper storage conditions may cause degradation and thus can adversely affect the physical properties of the product.

### Processing Conditions

BindEX E-183 can be processed on most of the standard extrusion equipment designed to process conventional polyolefins. Maximum processing temperature should not generally exceed 290 °C.

### Packaging

BindEX speciality polymers are supplied in pre-dried form in 25 Kg (55 lbs) PE lined, HD woven sack-laminated paper bags and 750 Kg (1 650 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.

The information given here is meant as a guide to determining suitability of our products for the stated applications. It is based on trials carried out by our laboratories and data selected from literature and shall in no event be held to constitute or imply any warranty. The products are intended for use in industrial applications. The users should test the materials before use and satisfy themselves with regard to contents and suitability in the desired application. Our formal specifications define the limits of our commitment. Recommendation herein may not be construed as freedom to infringe/operate under any third party patents. In the event of a proven claim, our liability is limited only to replacement of our material and in no case shall we be liable for special, incidental or consequential damages arising out of usage of our material. This datasheet is subject to change without notice.