

BONDINE® LX4110

BONDINE® LX4110 is a random ethylene – ethyl acrylate - maleic anhydride terpolymer.

BONDINE® LX4110 is a versatile adhesive for extrusion coating or lamination, designed as:

- Concentrate to be used in dry blend with LDPE. BONDINE® LX4110 improves adhesion of LDPE on aluminium foils, metallized or primerized films.
- Ready for use resin to be used pure. BONDINE® LX4110 gives excellent adhesion on substrates likes aluminium foil, metallized plastics, paper, board, PE and its copolymers.

Typical Properties

	Test Method	Unit	Typical Value
Ethyl Acrylate Content	FTIR (internal method)	%.-wt.	5
Maleic Anhydride Content	FTIR (internal method)	%.-wt.	3
Melt Index (190°C/2.16kg)	ISO 1133 / ASTM D1238	g/10min.	5
Melting Point	ISO 11357-3	°C	105
Vicat Softening Temperature (10N) ¹	ISO 306 / ASTM D1525	°C	78
Density	ISO 1183 / ASTM D1505	g/cm ³	0.94
Flexural Modulus ¹	ISO 178 / ASTM D790	MPa	140
Elongation at break ¹	ISO 527-2 / ASTM D638	%	650
Tensile strength at break ¹	ISO 527-2 / ASTM D638	MPa	11
Hardness Shore D ¹	ISI 868 /ASTM D2240	-	46

¹: On compression molded samples.

Processing

Heat stability of acrylate comonomer allows processing temperatures as high as for polyamides, which is the main material using BONDINE® LX4110 as impact modifier.

However, to minimize the generation of gels, it is recommended to purge the equipment with LDPE after a run is completed.

BONDINE® LX4110 is not corrosive.

Storage, Handling & Safety

BONDINE® LX4110 is usually packed in waterproof bags or rigid containers with waterproof liner. It should be stored in dry conditions and be kept out of moisture in an aerated building.

Improper storage conditions may cause degradation and could have consequences on physical properties of the product. It is recommended to reseal the bag or the liner after use to protect BONDINE® LX4110 against moisture.

Safety data sheet as well as information on handling and storage of the BONDINE® LX4110 is available upon request to your SK Functional Polymer representative.

Shelf Life

Three years from the date of delivery, in unopened packaging. For any use above this limit, please refer to our technical services.

The information above is believed to be accurate and represents the best information currently available to us. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to SK Corporation's standard terms and conditions of sale, copies of which are available upon request and which are part of SK Functional Polymer invoices and/or order acknowledgments. Except as expressly provided in SK Corporation's standard terms and conditions of sale, SK Corporation makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and SK Corporation assumes no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. SK Functional Polymer is a subsidiary of SK Global Chemical.