

LOTADER®/BONDINE® LX4110

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

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

- Concentrate to be used in dry blend with LDPE. LOTADER®/BONDINE® LX4110 improves adhesion of LDPE on aluminium foils, metallized or primerized films.
- Ready for use resin to be used pure. LOTADER®/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	g/10min.	5
Melting Point	ISO 11357-3	°C	105
Vicat Softening Temperature (1)	ISO 306 / ASTM D1525	°C	78
Density	ISO 1183	-	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 comonomers allows processing temperatures as high as for polyamides, which is the main material using LOTADER®/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.

LOTADER®/BONDINE® LX4110 is not corrosive.

Storage, Handling & Safety

LOTADER®/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 LOTADER®/BONDINE® LX4110 against moisture.

