

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 aluminum foils, metallized or primer-treated films.
- Ready for use resin to be used pure. LOTADER®/BONDINE® LX4110 gives excellent adhesion on substrates likes aluminum foil, metallized plastics, paper, board, PE and its copolymers.

Typical Properties

| | Test Method | Unit | Typical Value |
|--|------------------------|-------------------|---------------|
| Melt Index (190°C/2.16kg) | ISO 1133 | g/10min. | 5 |
| Ethyl Acrylate Content | FTIR (internal method) | %wt. | 5 |
| Maleic Anhydride Content | FTIR (internal method) | %wt. | 3 |
| Melting Point | ISO 11357 | °C | 105 |
| Vicat Softening Temperature (10N) ¹ | ISO 306 | °C | 78 |
| Density | ISO 1183 / ASTM D792 | g/cm ³ | 0.94 |
| Tensile strength at break ¹ | ISO 527 / ASTM D638 | MPa | 11 |
| Elongation at break ¹ | ISO 527 / ASTM D638 | % | 650 |
| Flexural Modulus ¹ | ISO 178 | MPa | 140 |
| Hardness Shore D ¹ | ISI 868 /ASTM D2240 | - | |

¹: On compression molded samples.

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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 a ventilated area, away from heat, humidity and direct sunlight. 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.

Safety data sheet as well as information on handling and storage of the LOTADER®/BONDINE® LX4110 is available upon request to your SK Functional Polymer representative or on website www.skfp.com.

Shelf Life

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