

LOTADER[®] 9318T

LOTADER[®] 9318T is a random ethylene-vinyl acetate-maleic anhydride terpolymer (EVA-MAH).

- As an ethylene copolymer, LOTADER[®] 9318T is compatible with PE in all proportions, and with most ethylene copolymers.
- Vinyl acetate brings softness, flexibility, and polarity while maleic anhydride brings reactivity, leading to versatile adhesive properties to polar and non-polar substrates.
- As a result of high-pressure polymerization in tubular reactor, LOTADER[®] 9318T also exhibits high transparency (low haze).

LOTADER[®] 9318T can be used to produce thermo-adhesive films for solid substrates like PA, PET & PU films, aluminium foils, fiber mats, foams... LOTADER[®] 9318T is also suitable as a tie layer between polyethylene and polyamide in blown film, cast film or in tubes co-extrusion. It can be used as a coupling agent in cables compounds formulations.

Typical Properties

	Test Method	Unit	Typical value
Vinyl Acetate content	FTIR (Internal Method)	% wt.	18.5
Maleic Anhydride content	FTIR (internal method)	ppm	1600
Melt Index (190°C / 2.16 kg)	ISO 1133 / ASTM D1238	g/10min	7
Melting point	ISO 11357-3	°C	88
Density	ISO 1183 / ASTM D1505	g/cm ³	0.94
Vicat softening temperature (10N) ⁽¹⁾	ISO 306 / ASTM D1525	°C	57
Ring & Ball temperature	ASTM E28	MPa	158
Elongation at break ⁽¹⁾	ISO 527-2 / ASTM D638	%	800
Tensile strength at break ⁽¹⁾	ISO 527-2 / ASTM D638	MPa	22
Hardness Shore A ⁽¹⁾	ISO 868 / ASTM D2240		88

1: On compression molded samples.

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Processing

LOTADER® 9318T can be processed on most conventional equipment used for thermoplastics. It is recommended to avoid overheating above 230°C and to purge the equipment after a run is completed.

Storage, Handling & Safety

LOTADER® 9318T should be stored in dry conditions protected from UV-light. Improper storage conditions may cause degradation and have consequences on physical properties of the product.

Safety data sheet as well as information on handling and storage of LOTADER® 9318T are 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.

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