SK functional polymer

Technical Data Sheet

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.

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.