

Ethylene – Vinyl Acetate – Maleic Anhydride Terpolymer

Description

OREVAC® T 9318 is a random terpolymer of ethylene, vinyl acetate and maleic anhydride made by high-pressure radical polymerization process. As an ethylene copolymer, OREVAC® T 9318 is compatible with PE in all proportions, and with almost all other ethylene copolymers. Vinyl acetate brings softness, flexibility and polarity, maleic anhydride gives reactivity, leading to versatile adhesive properties to polar and non polar substrates. As a result of high-pressure polymerisation in tubular reactor, OREVAC® T 9318 exhibits high transparency (low haze).

Applications

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

For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.

Typical properties

Characteristics	Value	Unit	Test Method
Vinyl Acetate content	17-20	% Wt	FTIR (internal method)
Maleic Anhydride content (mini.)	1600	ppm	FTIR (internal method)
Melt index (190°C / 2.16 kg)	6-8	g/10min	ISO 1133 / ASTM D1238
Melting point	86	°C	ISO 11357-3
Density	0.943	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening temperature (10N) ⁽¹⁾	54°C	°C	ISO 306 / ASTM D1525
Ring & Ball temperature	158	°C	ASTM E28
Hardness Shore A (15 sec)	84	-	ISO 868 / ASTM D2240
Elongation at break ⁽¹⁾	600-900	%	ISO 527-2 / ASTM D638
Tensile strength at break ⁽¹⁾	20	MPa	ISO 527-2 / ASTM D638

⁽¹⁾ On compression molded samples (specimens ISO 527-2, 5A type - thickness 2.8 mm - cross head speed 50mm/min)

Processing

OREVAC® T 9318 can be processed on any kind of conventional equipment used for thermoplastics. It is recommended to avoid melt temperatures above 230°C and to purge the equipment after a run is completed.

Storage, handling and safety

OREVAC® T 9318 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 OREVAC® T 9318 is available upon request to your ARKEMA representative or at www.orevac.com.

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