

Ethylene – Vinyl Acetate – Maleic Anhydride Terpolymer

Description

OREVAC[®] T 9307 Y is a random terpolymer of ethylene, vinyl acetate and maleic anhydride made by high-pressure radical polymerization process. As an ethylene copolymer, OREVAC[®] T 9307 Y 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 9307 Y exhibits high transparency (low haze).

Applications

OREVAC[®] T 9307 Y is suitable to produce thermo-adhesive films for solid substrates like PA, PET & PU films, aluminium foils, fiber mats, foams... OREVAC[®] T 9307 Y can also be used as a skin packaging adhesive on all type of cardboard.

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	13-15	% Wt	FTIR (internal method)
Maleic Anhydride content (mini.)	1600	ppm	FTIR (internal method)
Melt index (190°C / 2.16 kg)	9.5-11.5	g/10min	ISO 1133 / ASTM D1238
Melting point	93	°C	ISO 11357-3
Density	0.939	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening temperature (10N) ⁽¹⁾	66°C	°C	ISO 306 / ASTM D1525
Ring & Ball temperature	145	°C	ASTM E28
Hardness Shore A (15 sec)	91	-	ISO 868 / ASTM D2240
Elongation at break ⁽¹⁾	600-900	%	ISO 527-2 / ASTM D638
Tensile strength at break ⁽¹⁾	19	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 9307 Y 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 9307 Y 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 9307 Y is available upon request to your ARKEMA representative or at www.orevac.com.

September 2010

The information contained in this document is based on trials carried out by our Research Centers and data selected from the literature, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specifications define the limit of our commitment. No liability whatsoever can be accepted by Arkema with regard to the handling, processing or use of the products concerned which must in all cases be employed in accordance with all relevant laws and/or regulations in force in the country or countries concerned.