

## Orevac® T reactive vinyl acetate Terpolymers Clever Solution to Boost Adhesion.

Orevac® T reactive resins are used as an adhesion promoter in films or hot melt formulations for adhesion enhancement. These ethylene vinyl acetate maleic anhydride terpolymers allow bonding on many substrates, such as PA, PET, PP, ABS, PU, PE, metallic foils, textile, fiberglass, artificial leather, wood and natural fibers, non-woven, foam, etc.

### Thermo-adhesive film applications

Films containing Orevac® T resins help improving adhesion in many applications.

Automotive Industry: assembling of door panels, seats and roofing (bonding of textile substrate in seat covers and headliners), carpets, soundproofing and heat insulation materials.

Sport & Leisure: skis, sails, shoes (textile upper, liner, adhesion midsole/upper)

Furniture: decorative films, mattresses, seats, wall covering (bonding of foams on woven and non-woven).

#### Recommended grades:

**Orevac® T 9318**

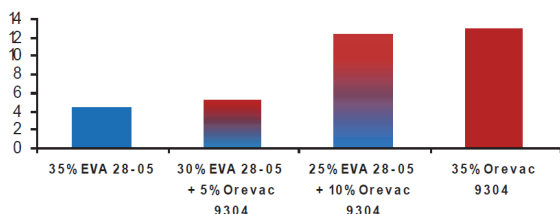
**Orevac® T 9304**



### Hot melt adhesive applications

Orevac® T reactive Terpolymer improve adhesion on difficult substrates. They enhance bonding where classical polyolefin-based hot melt adhesives suffer from a lack of adhesion onto non-porous and polar surfaces. Significant improvement is achieved on glass, metal foil, ABS, PP, etc.

Peel Strength (N/25mm) Alu/Glass  
(Polymer/Resin/Wax: 35/50/15)



Orevac® T resins are formulated with EVA copolymers, waxes, tackifying resins, plasticizers and fillers as standard HMA.

To optimize performance and cost, Orevac® T terpolymers are combined with Evatane® copolymers (at about 5-10%).

#### Recommended grades:

**Orevac® T 9304**

**Orevac® T 9305**

*For polyurethane hot melt (HMPU), the maleic anhydride group in the Orevac T backbone reacts with isocyanate. For this reason, Orevac T product range is the polymer of choice to improve green strength and global adhesion performance of HMPU.*

## Shrink Sleeves and Tapes applications

Orevac® T resins are used for shrink sleeves- tapes- two-layer PE coatings – for corrosion protection of pipeline and welding joints. Thanks to their fluidity, polarity and outstanding reactivity with a variety of substrates, Orevac® T resins are ideal modifiers to improve adhesion, viscosity and processability of adhesive layer of tapes and shrink sleeves. Orevac® T reactive resins are powerful compatibilizers between mineral fillers and olefin resins.

Orevac® T reactive resins provide adhesion in two - layer PE coatings, between steel, epoxy and PE topcoat.



### Recommended grades:

Orevac® T 9305

Orevac® T 9307Y

## General Features

Vinyl acetate content brings softness, flexibility and polarity to Orevac® T resins. Orevac® T resins have a low melting temperature and crystallinity, leading to a very good mechanical adhesion onto porous or fibrous substrates. Orevac® T resins can be laminated at low temperatures with no risk of thermal degradation of the substrates.

The maleic anhydride group gives reactivity, leading to versatile adhesive properties onto polar and non-polar substrates in lamination and onto molten polymers.

Orevac® T resins are fully compatible with EVA, EDA and metallocene PE. The manufacturing process allows keeping odor under control.

Orevac® T resins can also be used as a tie layer in multilayer extrusion barrier structures.

Grades	Co-monomer	Typical properties			
		Reactive group (%)	Melt index g/10mn; (190°C; 2.16kg)	Melting point (°C)	Vicat softening temp. (°C)
Orevac® T 9307Y	VA (14%)	0.2	10.5	93	66
Orevac® T 9318	VA (18,5%)	0.2	7	86	54
Orevac® T 9304	VA (25%)	0.2	7.5	80	49
Orevac® T 9305	VA (28%)	0.6	180	68	< 40
Test method	Internal method	Internal method	ISO 1133 - ASTM D1238	ISO 11357-3	ISO 306 – ASTM D1525

For additional information, visit our website [www.evatane.com](http://www.evatane.com)

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