

POLYETHYLENE VINYL ACETATE (EVA) ADHESIVES

Description

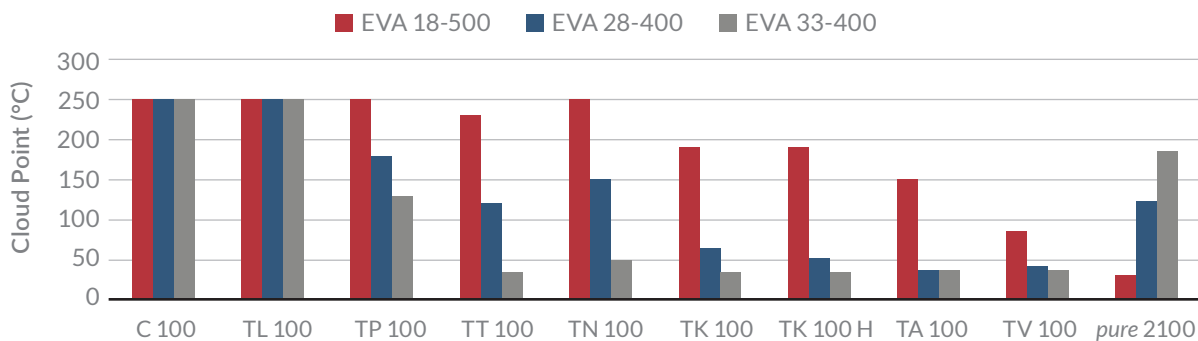
EVA hotmelt adhesives are the most popular hotmelt adhesives, typically used for packaging, bookbinding, profile wrapping and woodworking applications. In those, NOVARES[®] resins are gainfully used for the adjustment of tackiness and their rheological properties. Further beneficial impacts provided by NOVARES resins are the optimization of open time, increased adhesion, faster processing and improved shear resistance.

The cloud point measurement is a standard method to determine the compatibility of a resin and an adhesive polymer. In EVA hotmelt adhesives, the cloud point can be measured in a mixture of resin and polymer (1:1) or in a more practice-relevant blend consisting of resin, wax and polymer (1:1:1). For both, a high compatibility is indicated by a low cloud point.

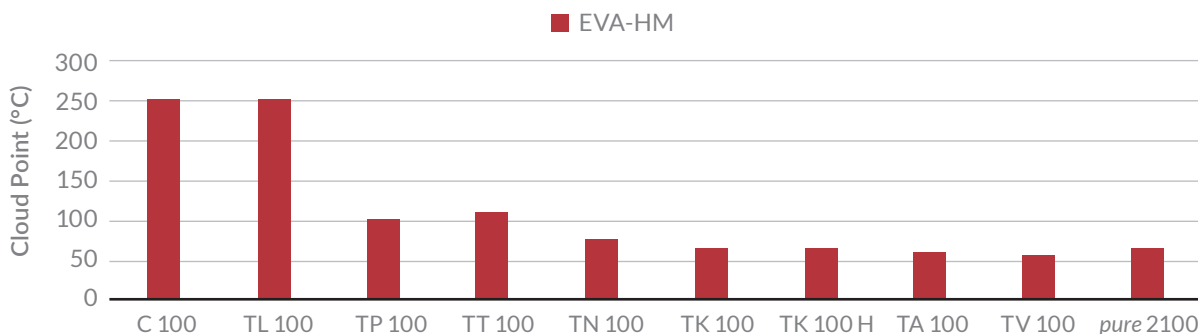


Results

Compatibility of NOVARES resins with different EVA types



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The compatibility of resin and EVA is essential for the most important properties of an adhesive, such as wetting, open time, set time, heat/shear resistance and cloudiness. An increasing content of VA leads to higher polarity of the EVA polymer and consequently results in better compatibility to aromatic NOVARES resins.

The fully hydrogenated NOVARES *pure*[®] resins are apolar and therefore more compatible with those EVA types with a low VA content. The NOVARES resins portfolio offers a wide range of gradient compatibilities with EVA polymers and allows finely nuanced performance adjustments.

NOVARES Resins for EVA Adhesives

EVA-based Hotmelt Adhesives	Recommended NOVARES Resins
Woodworking:	TN 120 – TN 160
– Edge banding	TT 120, TT 140, TT 120 H
– Profile wrapping	TS 140
– Construction	TK 100, TL 120
	TV 100, TV 120
	C 100, C 120
Paper and Packaging:	TK 100, TK 100 H
– Cardboard	TP 100, <i>pure</i> 2100
– Bookbinding	TM 85 AS
	TV 100, TV 120



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