



POLYFUNCTION AZIRIDINE PZ-28

- ❖ **Modify tack**
- ❖ **Increases cohesive strength**
- ❖ **Faster cure time**
- ❖ **Improves adhesion to difficult substrates**

PolyAziridine PZ-28 is an ambient cure cross-linker which brings many benefits to PSA applications. PZ-28 is a propylene imine tri-functional polyaziridine that is used in both aqueous and non-aqueous adhesives to promote both physical and chemical properties. The aziridine end groups react with active hydrogen as found on carboxyl groups of acrylic emulsions or polyurethane dispersions.

PolyAziridine PZ-28 is used to modify the tack or bond strength of Pressure Sensitive Adhesives. When added to a PSA, the PZ-28 cross-linking reaction changes the level of tack. As a result, the desired level of tack can be achieved by controlling the amount of the PolyAziridine PZ-28 added. Film converters reduce the number of adhesive resin systems needed for a range of removable protective film applications.

PolyAziridine PZ-28 will also increase the cohesive strength of the PSA by building a cross-linking network with the reaction of the three aziridine rings on each molecule with the PSA.

Use of PolyAziridine PZ-28 will also improve the adhesion of the PSA to the protective film as the polyfunctional aziridine will bond with the film substrate. This means that in these removable film applications the adhesive will adhere better to the film rather than delaminating and sticking to the object being protected.

PZ-28 is added at levels of 2% to 3% on solids to finished formulated adhesives. It is added slowly and under good agitation. After mixing, an aqueous system with a pH of 9.0-9.5 will typically have a pot life of 18-36 hours. This time will be reduced when the pH is lower.