

	<p>POLYAZIRIDINE GLOBAL, S.L. Rambla Fabra i Puig, 50 Entlo. 08030 Barcelona, Spain Tel.: +34 935 152 043 Fax: +34 935 152 424 www.polyaziridineglobal.com</p>	<h1>PSA Modifier</h1>
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## POLYFUNCTIONAL AZIRIDINE

# PZP-1000

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

PolyAziridine PZP-1000 is an ambient cure cross linker which brings many benefits to PSA applications. PZP-1000 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 in carboxyl groups of acrylic emulsions or polyurethane dispersions.

PolyAziridine PZP-1000 is used to modify the tack or bond strength of Pressure Sensitive Adhesives. When added to a PSA, PZP-1000 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 PZP-1000 added. Film converters reduce the number of adhesive resin systems needed for a range of removable protective film applications.

PolyAziridine PZP-1000 will also increase cohesive strength of the PSA by building a cross-linking network with the reaction of the three aziridine rings on each molecule with PSA.

Use of PolyAziridine PZP-1000 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.

PZP-1000 is added at levels of 1% to 3% on solids to finished formulated adhesives. It is added slowly and under good agitation. After mixing, an aqueous systems with a pH of 9.0 ó 9.5 will typically have a pot life of 18 ó 36 hours. This time will be reduced when the pH is lower.