

Going full circle – Resins for *recyclability and reparability*

By boosting the recyclability and reparability of polymers, allnex's resins and additives support the transition to a circular economy.



Red pigmented primer on PET film



After alkali wash
(2 % NaOH, 10 min, 85 °C)

DEBOND ON DEMAND

Debonding can be triggered by e.g. pH or heat. Systems can be used as primers enabling recovery of neat substrate or as glues allowing disassembly of glued parts at high temperature. Applications include flexible packaging and adhesives.

FIBER SALVAGE

Resins enabling recycling of fibers from composites. High-value fibers can be recycled after resin matrix is decrosslinked and dissolved. Polymer-fiber composites are main application.

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REPAIRABLE RESINS

Thermoset resins that can be welded and repaired. Thermosets acquire thermoplastic-like properties and superior performance. Applications: repairable coatings and composites.

Broken polymer disc



Healed disc

(50 bar, 160 °C, 1h)

