FOOD PACKAGING ADDITIVE SEALS THE DEAL FOR SHEET MANUFACTURER

CASE STUDY: COLOMATRIX™ DENESTING AGENT SOLUTIONS
LIQUID NON-STICK SOLUTION CREATES OPTIMAL SLIDE WITH NO HAZE

THE CHALLENGE
A leading sheet manufacturer faced a challenge when it needed to create a product with an increased level of slip without creating haze issues. The solution also had to be cost effective because the product was monolayer, meaning the entire composition of the sheet structure would contain the slip, or denesting, additive.

Previously, the manufacturer’s team had been using costly solutions that produced haze, and realized they needed a change that would give them a winning edge in the marketplace.

To improve its attractiveness to brand owner customers, the team was looking for a competitive-priced solution that could provide the right amount of slip, without affecting sheet transparency.

THE SOLUTION
The customer approached PolyOne with its dilemma and the additives team quickly went to work formulating a custom liquid denesting solution. PolyOne also supplied the customer with a ColorMatrix™ FlexCart™ liquid dosing system for accurate on-line dosing. It was fitted with a pressure sensor so the customer would be warned if product flow was restricted or running low.

PolyOne’s formulation was able to provide the required higher level of denesting performance required, without causing any transparency issues with the sheet and at the required lower cost. This additive keeps sheets from sticking together while also delivering a transparent and consistently easy-to-release product that exceeds the brand owner expectations.

THE IMPACT
As a result of the product’s efficacy and ease of use, the sheet manufacturer made the switch to ColorMatrix Liquid Denesting Agent.

In most sheet production facilities, a silicone bath is used to provide slip. It is a low cost option, but can provide too much slip, which causes issues with sealing and inconsistencies in performance. PolyOne’s liquid additive was so effective that the sheet producer now has plans to make significant process changes so that it can incorporate the additive in the longer term.

PolyOne offers ColorMatrix Liquid Denesting Agent solutions to enable effective package separation and improve manufacturing operations, including mold release during thermoforming and packaging pick-and-place operations.

To learn more about ColorMatrix additive solutions, contact PolyOne at +1.866.POLYONE (1.866.765.9663).