

Drying Solvent-Based Ink on Plastic with Model 4554 High Density Pyropanels

Application

A manufacturer drying solvent-based ink on webs of plastic labels.

Problem

Poor Quality - The existing method of drying the solvent-based ink with hot air blowers did not consistently produce quality printing on the labels.

Excessive Scrap - An excessive number of labels were being scrapped due to the inconsistent quality.

Slow Line Speed - Drying the solvent-based ink with hot air blowers required line speeds of 5 feet (1.5 meters) per minute.

Solution

Heat - Two Model 4554 High Density Pyropanels (one Model 4554-A-16-12 and one Model 4554-A-16-06) mounted perpendicular to the web applied heat to dry the solvent-based ink.

Air - Optional blower kits were installed on the High Density Pyropanels to enhance the drying process.

Power Control - A Model 664F Phase Angle SCR Power Controller controlled the power to the High Density Pyropanels.

Benefits

Improved Quality - The manufacturer was able to consistently produce quality printing on the labels using the Model 4554 High Density Pyropanels to dry the solvent-based ink.

Reduced Scrap - Few labels had to be scrapped due to poor printing quality.

Increased Line Speed - Line speed was increased to 15 feet (4.6 meters) per minute.

Increased Production Output - The manufacturer was capable of producing three times as many labels by drying the solvent-based ink with the High Density Pyropanels.