



DEVLON E1500 ROLLERS FOR MATERIAL HANDLING

Background

The picture below shows a heavy duty transportation system for airport logistics. The rollers fitted to the system were traditionally manufactured in aluminium. The resultant loss of grip between the aluminium rollers and the container bottom caused damage to the containers.

Disadvantages of Aluminium

- Containers slip on roller surface
- Flats/Dents develop on roller surface from impact
- Bearings or bushes required for smooth rotation



Solution

A broad range of plastics were tested as a potential replacement for aluminium on this application. The material was required to operate successfully in a temperature range from -50°C up to $+80^{\circ}\text{C}$, and had to provide increased friction and abrasion resistance between the roller and container bottom in order to prevent damage.

Advantages of Devlon

- Reduced noise
- Excellent UV stability
- High impact resistance
- Good abrasion resistance
- Withstands galvanisation treatment

