

PRODUCT APPLICATION NOTE

SN0301

Industry:	Chemical and Allied Products, Petroleum Refining and Related Products
Type of Application:	Level monitoring of plastic products
Optech Equipment Used:	Sentinel 3100
Application Description:	The customer required continuous and accurate monitoring of polystyrene plastic pellets in silos.

An integrated chemical company required a sensor to monitor the level of polystyrene plastic pellets in its silos. The ability of the plastic pellets to absorb sound waves rendered ultrasonics unfit for this application, and the material's low dielectric constant made it invisible to radar. Optech was therefore asked to test and install the Sentinel 3100, which easily measured to the pellets with their high reflectance coefficient. In addition, the customer was able to obtain smooth, consistent readings over the full cycle, eliminating the need for a high-level alarm.

KEY ADVANTAGES OF LASER TECHNOLOGY IN LEVEL MEASUREMENT

- Measurements unaffected by off-gas layers
- Measurements unaffected by vapour pressure
- Measurements unaffected by acoustically absorbing materials
- Measurements unaffected by low dielectric constant of material
- Measurements unaffected by temperature variations

