

# Polypipe's Effast system offers more efficient production for food ingredients specialist Kilo



**EFFAST**

Polypipe's Effast ABS products provide a robust, lightweight system that reduces pressure loss. The pipe and fitting systems offer a safe and secure choice for chilled or potable water, food stuffs and beverage applications in a commercial environment.



Effast ABS  
Products deliver  
heat resistance  
and durability.

Kilo is a leading supplier and distributor of food ingredients and preservatives. A key product made at Kilo's facility in the West Midlands is glycerine, which is supplied for a wide range of uses ranging from baking and ice cream manufacture to pharmaceuticals and E-liquid.

A critical part of the glycerine production process is the movement of 25,000 litre batches from one section of the facility line to another. This is a more challenging process than it might initially seem as it is crucial that the glycerine is moved at a temperature of 50°C – no lower and no higher. Cooler temperatures result in higher viscosity and a large increase in the time taken to complete the transfer, whilst a hotter temperature can lead to the product degrading quickly. Quality is vital for all of glycerine's uses and it must be suitably certified to be proven as a quality option, so Kilo is accredited to various standards that have to be maintained.

Kilo approached Advanced Pipeline Supplies to develop a new solution that would keep its production facility running smoothly and ensure the quality of the product was maintained. Polypipe's Effast ABS pipes, fittings and valves were identified as the ideal choice to deliver the required heat resistance and durability to keep the material flowing efficiently at 50°C. Effast plastic pressure systems are WRAS approved and easy to install. They also offer a lightweight alternative to systems made from traditional materials, without compromising on the lifecycle. Effast ABS products can operate at temperatures from -40°C to +60°C and feature a smooth bore pipe design to minimize pressure loss.

The choice of Effast also integrated well with the use of a compressed air system rather than pumps. This involves pressurizing storage tanks with filtered clean air and a heating coil system to maintain the heat for speed of production. The Effast range lends itself well to such installations, with slow bends and full-bore ball valves ensuring a smooth flow as well as the air pressure pipework and safety vent system.

With the Effast system efficiently installed, Kilo is equipped with a reliable production line that will enable them to continue building relationships with customers and provide a dependable service with quality assurance.

Dave Jackson, Works Manager at Kilo, commented:

**"Effast ABS was the perfect choice for use with our food products; no chance of any contamination and no undue crevices to deal with."**

#### About APS

Advanced Pipeline Supplies was established in 2005 by Stuart & Lesley Hubbard when they identified a gap for a technically minded supplier in the industrial plastic pipework market. Stocking a wide range of plastic pipe, fittings & valves, APS have an extensive knowledge of market sectors such as Water Treatment, Automotive, Metal finishing, Food & beverage production, Chemical manufacturing and many more. Based in the West Midlands, APS supply nationwide to many household named companies with a particular leaning towards ensuring correct installation techniques and material choices.



#### CASE STUDY

##### Project

Kilo's West Midlands Facility

##### Client

Kilo Ltd

##### Application

Glycerine Transfer Pipework

##### Product

ABS Pipe, Fittings and Valves