

Swell idea...

Hydrophilic (water swellable) TPE

Our Dryflex® range of Hydrophilic or 'Water Swellable' TPE materials were developed to expand upon contact with aqueous solutions (PH7 to 12) to form a positive seal and prevent the ingress or exit of water.

A range of formulations have been developed to offer swell rates from 300 to 800% when immersed in water. When there is no longer water present the compound shrinks back to its original size, a process of expansion and contraction that can be repeated an unlimited number of times.

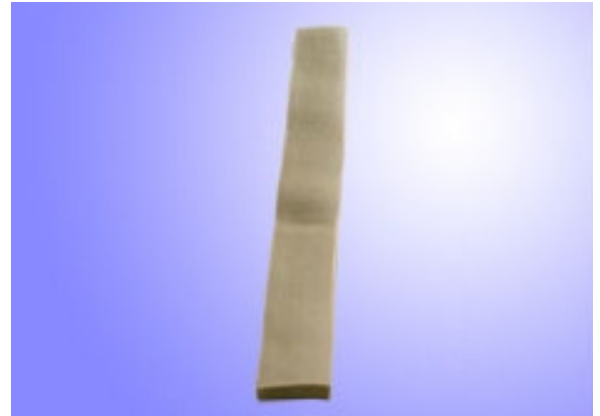
The compounds have solid structural integrity; unlike many of the equivalent clay based products which can erode and shatter over time. Compounded in any colour, the water swellable TPE is 100% recyclable and can be processed using conventional fabricating methods, including extrusion and injection moulding. The compound is also available in anti-microbial versions.

Applications include:

Water treatment plants, tunnels, drains and sewers, tanks, automotive sealant parts, glazing, headlights, windshields, sunroof, cable protection, optical fibres, electrical cables, joints.

Features:

- Expansion from 100 to 1000% possible
- Different swell rates available
- 100% Recyclable
- Processable using conventional methods; including injection moulding and extrusion
- Anti-microbial versions available
- Compounds available for alkaline and saline environments
- Colour compounding
- Weather resistance



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