

FLEXITEC FITTINGS - TPE MATERIAL

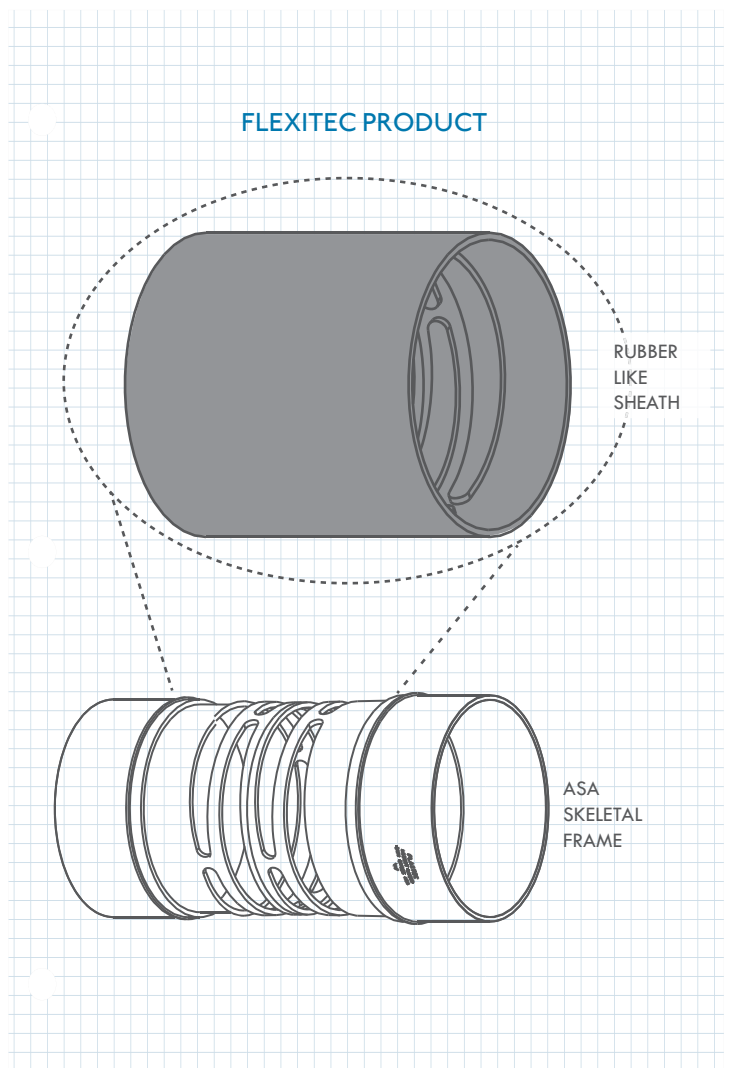
Plastec's Flexitec fittings are made from an ASA skeletal frame and an elastomeric (rubber like) compound sheath which have been injection moulded together, creating a superior fitting for strength, durability and flexibility.

The rubber like sheath on each Flexitec fitting is made from a mix of materials with of both thermoplastic (plastic) and elastomeric (rubber) properties (TPE).

The thermoplastic properties used in TPE products allows relative ease of manufacture with the ability to be injection moulded, while the elastomeric properties give products flexible movement.

The elastomeric rubber used in Flexitec fittings is made up of the following combination; Styrene - Ethylene - Butylene - Styrene (SBS), which is a saturated rubber containing no double bonds. This blend is designed to give Flexitec fittings a superior resistance to UV and general weathering, while allowing the product to bend, twist and torque without compromising the fitting.

SEBS is the same active ingredient used across many plasticized engineering applications due to its high resistance to water, acids and corrosion.



Flexitec fittings, with the use of TPE, have:

- superior resistance to UV aging and general weathering
 - a wide hardness range from 2 ShA to 60 ShD
- the ability to be used in temperatures ranging from -50°C to 120°C
 - superior fatigue resistance
- excellent resistance to acids, chemical detergents and cleaners
- the ability to return back to shape after use in a wide range of temperatures.