FICHA TÉCNICA

GST3D TPU FLEX 89A is a high-performance polyester based thermoplastic polyurethane with excellent mechanical properties.
It is particularly suitable for extrusion of hoses, tubes, pipes, profiles and for injection moulding of technical articles.

Typical properties

Specific gravity	ASTM D -792	1.20 Kg/dm^3
Hardness	ISO 868	89 Shore A
Mod. @ 50% of elongation	EN 12803	7.3 MPa
Mod. @ 100% of elongation	EN 12803	8.5 MPa
Mod. @ 300% of elongation	EN 12803	19.0 MPa
Tensile strength	EN 12803	50 MPa
Elongation at break	EN 12803	480 %
Tear strength	ISO 34	110 KN/m
Abrasion resistance	EN 12770	25 mm^3
Softening temperature (VICAT) (1 kg, 50 °C/h)	ISO 306	95 °C
Glass transition temperature (Tg)*	DMA	- 35 °C
MFI (210 °C, 5 kg)	ISO 1133	15 - 35

*(Maximum of Loss modulus curve in *Dynamic Mechanical Analysis)*

The values quoted have been measured using standard test specimens at room temperature. The figures should be considered as indicative values only and not as binding minimum values.
Actual properties of TPU parts can be affected to a considerable extent by the design of the mould, the processing conditions and the additives used. For these reasons they have to be determined on the actual TPU articles on a statistical base. Full-scale testing and end product performance are full responsibility of the user.