



Technical Data Sheet (ISO)

TPE (Thermo Plastic Elastomer)

TrueFLEX

Features No warping, Minimal tackling, Extreme elasticity/flexibility, Dimensional stability
Characteristics Gloss surface quality, Endurance

Physical		Test Method	Value
Specific gravity		ISO 1183-1	1.2 g/cm ³
Mechanical		Test Method	Value
shore hardness, method A		ISO 868	86
Ultimate tensile strength	200 mm/min	DIN 53504	52 MPa
Strain at break	200 mm/min	DIN 53504	552 %
Stress at 10 % strain	200 mm/min	DIN 53504	2,1 MPa
Stress at 50 % strain	200 mm/min	DIN 53504	4,7 MPa
Stress at 100 % strain	200 mm/min	DIN 53504	5,8 MPa
Stress at 300 % strain	200 mm/min	DIN 53504	16,4 MPa
Compression set	24 h; 70 °C	ISO 815	50 %
Compression set	72 h; 23 °C	ISO 815	25 %
Abrasion resistance		ISO 4649 method A	30 mm ³
Impact resilience		ISO 4662	42 %
Tear propagation resistance	500 mm/min	ISO 34-1	70 kN/m
Thermal		Test Method	Value
Tensile storage modulus	-20 °C	ISO 6721-1,-4	186 MPa
Tensile storage modulus	20 °C	ISO 6721-1,-4	51 MPa
Tensile storage modulus	60 °C	ISO 6721-1,-4	37 MPa

Notes

These are just typical properties, not specifications.