

FILOFlex 55 D

Characteristic:

Thermoplastic Polyester-Polyurethane with excellent mechanical properties and wear resistance, good damping characteristics and a high resilience performance.

Processable by injection moulding and extrusion.

Property	Unit	Value	Test method according to
Hardness	Shore D	55	DIN ISO 7619-1
Density	g/cm³	1,25	DIN EN ISO 1183-1-A
Tensile strength	MPa	45	DIN 53504-S2 / ISO 37
Elongation at break	%	500	DIN 53504-S2 / ISO 37
Stress at 20 % elongation	MPa	13	DIN 53504-S2 / ISO 37
Stress at 100 % elongation	MPa	16	DIN 53504-S2 / ISO 37
Stress at 300 % elongation	MPa	23	DIN 53504-S2 / ISO 37
Modulus of elasticity – tensile test	MPa	200	DIN EN ISO 527
Tear strength	N/mm	150	DIN ISO 34-1Bb
Abrasion loss	mm³	25	DIN ISO 4649-A
Compression set at room temperature	%	30	DIN ISO 815
Compression set at 70 °C	%	45	DIN ISO 815
Notched impact strength (Charpy) + 23°C - 30°C	kJ/m² kJ/m²	no break 13	DIN EN ISO 179-1

Test plaques are manufactured by injection moulding from pre-dried granules (water content of $\leq 0.02\%$). Test plaques are aged 20 hrs at 100°C. Specimens are cut from test plaques. Test conditions: 23°C \pm 2°C and 50% \pm 6% rel. humidity.

These are general guidance data. No statement regarding specific properties. All supplies are subject to detailed specifications to be agreed-up in each individual case and containing, among others, the tolerances to be specified therein.

Storage and handling:

FILOFlex is hygroscopic, therefore storage in dry conditions and original container is recommended.