

FILOFlex 90 A

Characteristic:

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

Processable by injection moulding, extrusion and blow moulding.

Property	Unit	Value	Test method according to
Hardness	Shore A Shore D	93 41	DIN ISO 7619-1
Density	g/cm ³	1,24	DIN EN ISO 1183-1-A
Tensile strength	MPa	55	DIN 53504-S2 / ISO 37
Elongation at break	%	600	DIN 53504-S2 / ISO 37
Stress at 20 % elongation	MPa	6	DIN 53504-S2 / ISO 37
Stress at 100 % elongation	MPa	9	DIN 53504-S2 / ISO 37
Stress at 300 % elongation	MPa	13	DIN 53504-S2 / ISO 37
Tear strength	N/mm	95	DIN ISO 34-1Bb
Abrasion loss	mm ³	30	DIN ISO 4649-A
Compression set at room temperature	%	25	DIN ISO 815
Compression set at 70 °C	%	45	DIN ISO 815
Notched impact strength (Charpy) + 23°C - 30°C	kJ/m ² kJ/m ²	no break no break	DIN EN ISO 179-1

Test plaques are manufactured by injection moulding from pre-dried granules (water content of ≤0,02%). Test plaques are aged 20 hrs at 100°C. Specimens are cut from test plaques. Test conditions: 23°C ± 2°C and 50% ± 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.