

Elastollan[®] C 60 A HPM

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Characteristic:

Plasticizer-free, thermoplastic Polyester-Polyurethane with excellent mechanical properties and chemical resistance, outstanding wear resistance, high tear and tensile strength, good damping characteristic and high resilience performance, high heat resistance and improved setting properties.
Processable by injection moulding, extrusion and blow moulding.

Property	Unit	Value	Test method according to
Hardness	Shore A	63	DIN ISO 7619-1
Density	g/cm ³	1,17	DIN EN ISO 1183-1-A
Tensile strength	MPa	35	DIN 53504-S2 / ISO 37
Elongation at break	%	1000	DIN 53504-S2 / ISO 37
Stress at 20 % elongation	MPa	0,85	DIN 53504-S2 / ISO 37
Stress at 100 % elongation	MPa	1,5	DIN 53504-S2 / ISO 37
Stress at 300 % elongation	MPa	2,0	DIN 53504-S2 / ISO 37
Tear strength	N/mm	40	DIN ISO 34-1Bb
Abrasion loss	mm ³	55	DIN ISO 4649-A
Compression set 23°C / 72 hrs	%	25	DIN ISO 815
Compression set 70°C / 24 hrs	%	43	DIN ISO 815
Tensile strength after storage in water at 80°C for 21 days	MPa	20	DIN 53504-S2 / ISO 37
Elongation at break after storage in water at 80°C for 21 days	%	1100	DIN 53504-S2 / ISO 37
Notched impact strength (Charpy) + 23°C - 30°C	kJ/m ² kJ/m ²	no break no break	DIN EN ISO 179-1
Vicat-softening temperature A 120°C/h	°C	70	DIN EN ISO 306

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.