

General product information



The Chemical Company

Elastollan® B 60 D

® = registered trademark of BASF Polyurethanes GmbH

Characteristic:

Thermoplastic Polyester-Polyurethane with excellent mechanical properties, outstanding wear resistance, high tear and tensile strength, good damping characteristic, high resilience performance and superior low temperature flexibility.

Processable by injection moulding.

Property	Unit	Value	Test method according to
Hardness	Shore D	60	DIN 53505
Density	g/cm ³	1,23	DIN EN ISO 1183-1-A
Tensile strength	MPa	55	DIN 53504-S2
Elongation at break	%	500	DIN 53504-S2
Stress at 20 % elongation	MPa	13	DIN 53504-S2
Stress at 100 % elongation	MPa	16	DIN 53504-S2
Stress at 300 % elongation	MPa	30	DIN 53504-S2
Modulus of elasticity – tensile test	MPa	240	DIN EN ISO 527
Tear strength	N/mm	150	DIN ISO 34-1Bb
Abrasion loss	mm ³	25	DIN ISO 4649-A
Compression set at room temperature	%	35	DIN ISO 815
Compression set at 70 °C	%	45	DIN ISO 815
Tensile strength after storage in water at 80°C for 21 days	MPa	40	DIN 53504-S2
Elongation at break after storage in water at 80°C for 21 days	%	450	DIN 53504-S2
Notched impact strength (Charpy) + 23°C - 30°C	kJ/m ² kJ/m ²	no break 10	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.



Date: May 2010

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Storage and handling:

Elastollan® is hygroscopic, therefore storage in dry conditions and original container is recommended. Additional information about drying, processing temperatures and post-treatment are given in our product brochure „Thermoplastic Polyurethane Elastomers (TPU) Elastollan®- Processing Recommendations“.

Chemical Characteristics:

Polymer based on: polyurethane, stabilizing agents and additives

Delivery form and packing:

Lentil shaped pellets
Packaging dependent upon grade and agreement.

Processing:

Processable at least for 6 months from delivery date in original sealed containers with cool dry storage.

Hazard indication:

No particular hazards known.
Please have a look at the Material Safety Data Sheet before handling.

Waste Disposal:

More detailed information is provided in our country-specific pamphlet and the Material Safety Data Sheet.

Important Information:

There are national and international laws and regulations to consider if it is intended to produce consumer articles (e.g. articles that necessitate food or skin contact, toys etc.) or medical objects from BASF Polyurethanes GmbH products. Where specific regulations do not exist, the current legal requirements of the European Union for consumer articles as well as medical products should be used as reference. Consultation with the BASF Polyurethanes GmbH Sales Office and our Ecology and Product Safety Department is strongly recommended.

The data contained in this document shall constitute the agreed contractual quality of the product at the time of passing of risk. The data is reviewed at regular intervals as part of our quality assurance programme. Neither this data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or fitness for a specific purpose. No liability may therefore be derived from the data contained herein.



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