

General product information



Elastollan® 1185 A M

®= Registered Trademark of BASF Polyurethanes GmbH

Characteristic:

Thermoplastic Polyether-Polyurethane Elastomer with outstanding hydrolysis resistance, low temperature flexibility and resistance to micro-organisms. Processable by extrusion.

Property	Value	Unit	Test method according to	
Hardness	88 39	Shore A Shore D	DIN ISO 7619-1 (3s)	
Density	1.11	g/cm³	DIN EN ISO 1183-1-A	
Tensile strength after storage in water at 80°C for 42 days	45 30	MPa	DIN 53504-S2	
Elongation at break after storage in water at 80°C for 42 days	600 650	%	DIN 53504-S2	
Stress at 20% elongation	3.5	MPa	DIN 53504-S2	
Stress at 100% elongation	7	MPa	DIN 53504-S2 DIN 53504-S2	
Stress at 300% elongation	12	MPa		
Tear strength	60	N/mm	DIN ISO 34-1Bb	
Abrasion loss	60	mm³	DIN ISO 4649-A	
Compression set at 23°C / 72 hours Compression set at 70°C / 24 hours	35 45	%	DIN ISO 815	
Notched impact strength(Charpy) 23°C -30°C	No break No break	KJ/m ²	DIN EN ISO 179-1	
Flammability rating	-		UL 94	

Test plates are manufactured by injection moulding from pre-dried pellets (water content less than 0.02%). Test plates are aged 20 hrs at 100°C. Specimens are cut from test plates. 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.

Delivery form and packing:

Lentil shaped pellets PE-Bags, 25 kg net Octabins with PE liner bags, 1000 kg net

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Drying recommendations:

Material must be dried before processing for 2 - 3 hours at 80 - 100°C in a dehumified air dryer. Additives have to be dried with the granules. The water content of the granules should not exceed 0,02%.

Extrusion:

Following temperatures are guide values, showing the tendency of temperature profile. These may

vary depending on kind of machine and mould design.

•							
Feed [°C]	Zone1 [°C]	Zone2 [°C]	Zone3 [°C]	Zone4 [°C]	Adaptor [°C]	Head [°C]	Die [°C]
Cooled*	160	170	180	190	185	185	180

^{*}in case of using a grooved feeding zone

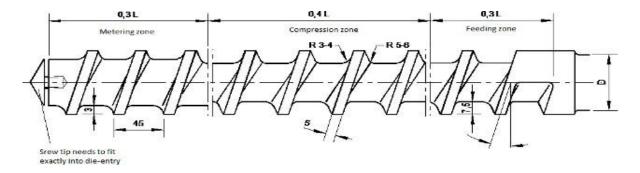
General Recommendations: circumferential Speed 0.15 m/s max.

Screw speed	d _{screw} [mm]	45	60	75	90
Sciew speed	n _{max} [min ⁻¹]	60	45	35	30

For start-up use screw-speed of about 0,05m/s and starve feeding in order to control screw torque and engine power consumption.

Machine Design:

Single screw extruder with a compression ratio of 1:2 to 1:3, preferably 1:2,5, are recommended for processing. BASF experience shows that three section screws with L/D ratio of 25 to 30 are most suitable. Three section screw should have continued constant pitch of 1D. The radial clearance between screw and barrel should be 0,1 to 0,2mm. Multizone screws, e.g. barrier screws, have also proven suitable. Short screws with high compression ratio are unsuitable for Elastollan®.



Processing:

In cool and dry storage and in the original, undamaged and sealed containers, the products are processable for at least 6 months from delivery date. Thereafter, we do not give any warranty or guarantee regarding the processability and/or shelf life of the products. Warranties regarding buyer's rights in case of defects remain unaffected hereby.

Storage:

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".

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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 Polyurethane Specialties (China) Company Ltd 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 Polyurethane Specialties (China) Company Ltd Sales Office and our Ecology and Product Safety Department is strongly recommended.

The data contained in this document as well as advice or other support services are based on our current knowledge and experience. In view of many factors that may affect processing and application of our products, this data does not relieve processors from carrying out their own investigations and tests, particularly with regards to the suitability of the goods supplied for the processes and purposes they intend to use them for; neither does this data imply any guarantee of certain properties, or the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, measured values etc. given herein may change without prior notice and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

For additional information please contact our Sales Office: BASF Polyurethane Specialties (China) Company Ltd.

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