



YOUR PRODUCER AND PROCESSOR OF PLASTICS

PolyPLASTY SUPPLIES FOR MANY FIELDS

- engineering
- car and transport technology
- medical technology
- semiconductor technology and electro technology
- aviation and cosmonautics
- Off-Shore
- food machines
- beverage technology and packaging
- building industry

WHY TECHNICAL PLASTICS?

- lubricity properties even without lubricants
- small mass density
- damping capacities
- not corrodible
- excellent design
- good insulating properties
- contact with foodstuffs possible
- abrasability
- unsaturation
- non-clogging

PolyPLASTY PRODUCES A WIDE VARIETY OF PRODUCTS

- extruded or cast semiproducts
- cutting-operated components
- compressed components
- alkaline polyamides castings
- industrial profiles and pipes
- thermally insulating profiles
- distance frames and many others

DEVELOPMENT

- Thanks to our development centre we are ready to prepare for you a raw-material according to your needs

FIRM'S POLICY

- To remain a marketing-oriented company in which demands and wishes of the customers are the first priority.
- We boost usage of technical plastics in industry and commerce and offer to our customers individual solutions.
- We supply our customers with products and services which bring to them competition conveniences. Our solutions are pioneering, of top-quality, practical and economical.
- We are active worldwide. We strive for continuous growth, which is enabled thanks to always new products.
- We will do our best for harmonic and correct relations to our business partners. Our objectives are long-term and reliable business relations.
- Our company comprises committed and qualified colleagues.
- We contribute our share to environmental protection. Being citizens of the society and the state we shall think and act responsibly towards nature.

FIRM'S PROFILE

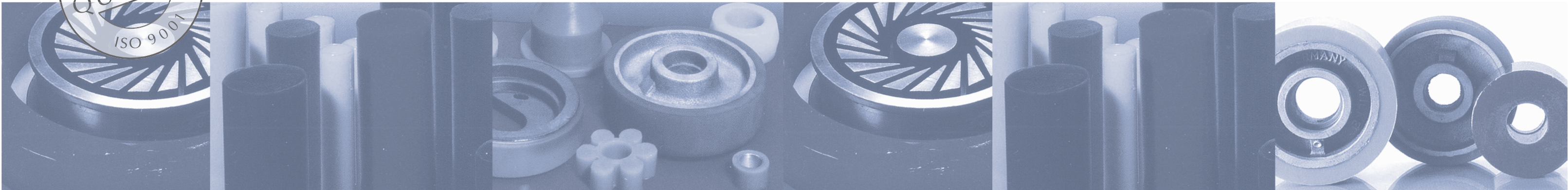
- Thanks to the orientation of its production, since the commencement of alkaline polyamide production in 1963 and cast polyurethane elastomers in 1965, the company has become a significant supplier of chemical plastics. The company further develops the traditions of the firm TANEX, Plasty a. s. and the new name of the company was introduced in 2004 within the new holding arrangement, when it became a 100% subsidiary company of TP Holding, a. s.
- Extensive investments into production technology, equipment and creation of logistic capacities are a solid platform for the company future perspectives.
- The tradition of production (the trademark PolyTAN has been existing since 1893) compels the company PolyPLASTY to take the quality and stability of supplies with a continuous development of products and services for granted. That is why the company has implemented a quality-control system in accordance to the ISO 9001 quality system. At the same time, the company is fully aware of its obligations in the field of ecology, which has been confirmed with a certificate in accordance to ISO 14001.

Poly **PLASTY**® | Poly **TAN**® | Poly **POM**® | Poly **PEEK**® | Poly **PET**® | Poly **ETHEN**® | Poly **ROBID**®
 producer and processor | Poly **JARID**® | Poly **DEF**® | Poly **FLON**® | Poly **PLEX**® | Poly **PROP**® | Poly **VINOR**®

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flexibility
 quality
 rate





PolyTAN

USAGE

TREATMENT

POLYURETHANE ELASTOMER

Polyurethane elastomer PolyTAN offers a unique combination of elasticity, high tearing resistance and abrasion resistance. Thanks to such combination we can introduce to you a material, which in the form of machine components lives up to high expectations of infallibility even in big dynamic load or in an environment demanding good resistance to abrasion and toughness.

FASTNESS

PolyTAN is characterised by high fastness in petrols, mineral oils, oil products and ozone. In flammability tests it meets conditions for classification in categories HF-1 and FV-2 according to ISO 1210. This material has a self-extinguishing ability after removal of the flame.

RESISTANCE

PolyTAN is very well resistant to mineral oils, lubricating greases, crude oil and oil products. It is little resistant to benzene and chlorinated hydrocarbons.

PACKING AND STORAGE

PolyTAN products storage has to be specified in a contract between the producer and the customer.

LIQUIDATION

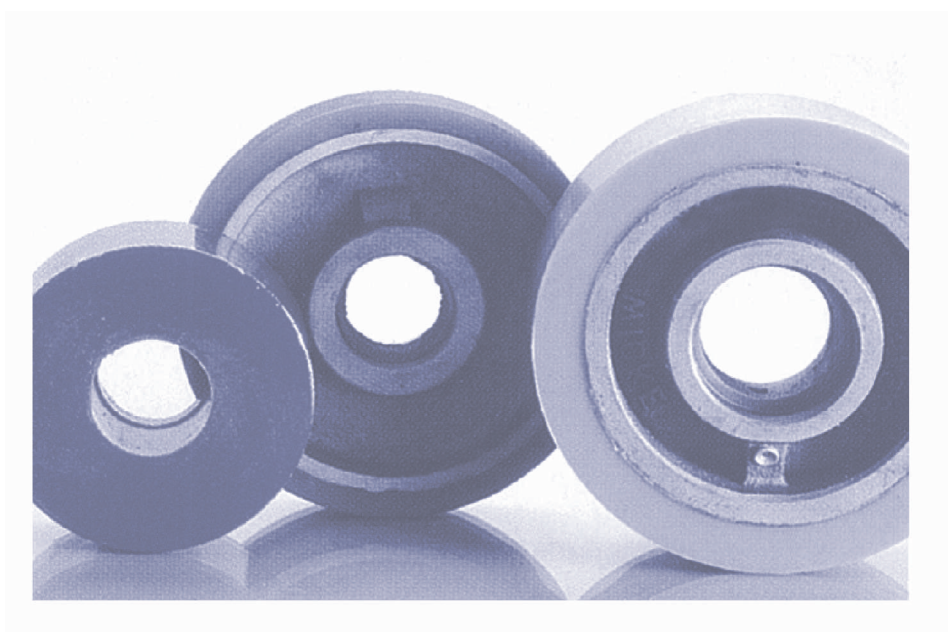
The products liquidation is possible in accordance with The Act on Waste No. 125/97.

HANDLING EQUIPMENT

Wheel sockets for handling equipment, cylinders with polyurethane layer, stops, springs, pillow skids and desks under clicking dies, snub pulleys.

OPERATED SEMIPRODUCTS AND PRODUCTS

Cyclones, cylinders with polyurethane layer, stops, springs, sleeves, wiper blades, scraper blades for snow ploughs, pillow stop bars for clicking dies, lining of chutes and drops of loose abrasive materials, snub pulleys, joint couplings, lining of tumbling drums.



PolyTAN is produced in pressureless open-mould casting or centrifugal casting.

The applied technology enables us to satisfy special wishes for profile products with usage of pressureless moulds at convenient prices. PolyTAN can be machined, in case of need contact our Sales Department, please.

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Properties	Unit	15/65 44/65	15/80 44/80	15/90 44/90	15/95 44/95	Standard	Produced Semiproducts and Products
Hardness	ShA	65	80	90	95		
		65	80	90	95		
Tensile strength (min.)	N/mm	30	40	35	35	DIN53504	Desks 39000 x 690 x 2 up to 12 mm
		30	35	38	42	DIN53504	
Drawing quality	%	600	600	580	500	DIN53504	Desks 2000 x 1000 x 2 up to 12 mm
		600	580	580	500	DIN53504	
Density	g/cm ³	1,26	1,26	1,26	1,27	DIN53479	Blocks in diameter 20 up to 420 mm in lengths up to 250 mm (standard)
		1,25	1,25	1,25	1,26	DIN53479	
Rebound elasticity	%	43	50	50	42	DIN53512	Circulating belts for textile machines
		45	40	40	35	DIN53512	
Compression strain in 70°C/24hrs	%	22	30	25	33	DIN53517	Shaped products according to Your wishes and technological possibilities
		50	45	35	30	DIN53517	
Abradability	mm ³	50	50	55	55	DIN53516	Products cast on metal, PolyJARID 6 cylinders up to length 1200 mm
		50	50	55	55	DIN53516	
Coefficient of friction*			0,3-0,4 0,3-0,4	0,15-0,25 0,15-0,25			
Colour type**		Brown red	Green blue	Umber Brown	Umber		

* Stated values are related to ground steel in solid friction, in water- or oil- lubrication: coefficient up to 0,04 related to concrete dry or wet: 0,8-1,2

** Color type can be modified upon customer's agreement

PRODUCED TYPES Hardness and type are differed by color type



POLYTAN 15/xx - POLYTAN 44/xx

XX in the description stands for the unit of the material hardness in Shore A degrees. We offer to you as a standard material some of the following hardnesses: 65,80, 90 and 95 Shore A degrees. Besides standard types, it is possible to arrange for an optional production of elastomer from 20 95 ShA. For clarity the individual hardnesses and types are differentiated by colours (see the chart).

- POLYTAN 15/65 Color brown
- POLYTAN 15/80 Color green
- POLYTAN 15/90 Color gold
- POLYTAN 44/65 Color red
- POLYTAN 44/80 Color blue
- POLYTAN 44/90 Color yellow