Technical plastics

Type	E-Module (MPa)	Tensile strength (MPa)	Continuous service temperature (°C)	Moisture ingress (%)	Notch toughness (kJ/m²)	Expansion at Δ20°C mm/m	Chemical resistance	Density g/cm³	Sliding behaviour against steel	Area of application
PE300	900	22	80	0.01	19	3.6	✓✓	0.96		Container construction, fittings, pump bodies
PE500	1,100	28	80	0.01	25	3	✓✓	0.96	✓	Sliding components, impact protection, cutting board pads
PE1000	760	40	90	0.01	no breakage	4	✓✓	0.93	✓✓	Slide rails, conveyor technology, mechanical engineering
PP-H	1,725	32	100	0.2	9	3	✓✓	0.9		Container construction, pump bodies, fittings
PVC-U	3,300	58	60	0.2	4	1.6	✓✓	1.44		Pipework, housings, pump components
PA6	3,470	80	105	6.5	4	1.6	✓	1.14	✓✓	Gear wheels, diversion wheels, casters
POM-C	2,855	65	100	0.8	6	2.4	✓	1.41	✓✓	Bearing components, mechanical engineering, casters
PET-P	3,445	80	100	0.5	2	1.6	✓✓	1.39	✓	Casters, gear wheels, mechanical engineering
PVDF	2,125	46	150	0.04	12	2.6	✓✓✓	1.78		Valves, pump components
PTFE	700	26.5	260	0.05	15.4	2.44	✓✓✓	2.14	✓✓✓	Sliding components, seals, linings
PEEK	4,000	110	250	0.2	4	1	✓✓✓	1.31	✓✓✓	Gear wheels, parts with extremely high mechanical and thermal load

Transparent plastics

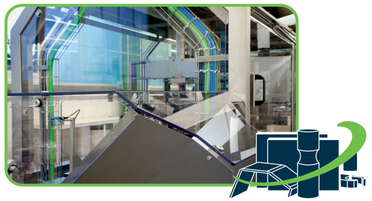
Type	E-Module (MPa)	Tensile strength (MPa)	Continuous service temperature (°C)	Moisture ingress (%)	Notch toughness (kJ/m²)	Expansion at Δ20°C mm/m	Chemical resistance	Density g/cm³	UV-resistance	Dilectric strength	Area of application
PMMA	3,210	75	80	0.2	12	1.4	✓✓	1.19	✓✓✓		Vacuum lids, roofing, housing
PC	2,200	60	115	0.35	no breakage	1.3	✓	1.2	✓	✓✓✓	Machine housings, dielectric applications, partitions
PETG	2,280	50	70	0.3	no breakage	1.36	✓	1.27	✓	✓	Machine housings, displays

Above examples constitute an excerpt from our product range. Other types available on request.

Plastics technology

Technical functional parts and drawing parts, cuts, and assemblies for mechanical and plant engineering as well as transparent plastics for the highest technical and optical demands: Discover the comprehensive varieties by noltewerk.
Every manufacturing concept is precision work: Selecting semi-finished products, round, or hollow bars as well as sheets of various high-grade material, in different colours and material thicknesses according to drawings and specifications.

Smartly networked software and automation processes enable complete tracking of material processes and merchandise management processes.
Aim: Creating process reliability and securing a joint and long-term market success. Efficient CNC-machinery in operation and technically highly skilled members of staff complement the production concept.



Logistically in the perfect location with state-of-the-art production facilities the noltewerk in Greven has much to offer. Multi-resource-planning networks our machines and operations so that processes involved may be perfectly and economically planned.
The unique constellation of the Noltegroup creates unparalleled synergies.
noltewerk and Carl Nolte Technik mutually benefit from being housed under one roof with member of staff acting as one team. Comprehensive additional storage capacities and know-how in digital procurement and logistics processes are also part of the core competencies of Carl Nolte Technik just as services and products for health and safety as well as tube and compressed air technology are.

Customer Service

Conveyor Technology +49 (2571) 16 - 310
Elastomer Technology +49 (2571) 16 - 311
Plastics Technology +49 (2571) 16 - 312

Learn more

www.noltewerk.de

noltewerk
by your side • at any time

Product overview

All information based on current knowledge and experience. Information provided shall not exempt the contractor or user from conducting own tests. A legally binding warranty as to product features or its suitability for specific purposes may not be derived therefrom. Compliance with any proprietary rights as well as existing laws or regulations is the responsibility of the recipient of our products. No liability assumed for printing and any other errors. Technical data subject to change without notice. Reproduction or duplication of this document or its contents - whole or in part - is only permitted with express approval by noltewerk. As of 1022.

Plastics conveyor belts

Type	Cover material		Number of tension members	Force at 1 % elonga-tion (N/mm)	Minimum drum diameter (mm)		Approx. belt thick-ness (mm)	Approx. belt weight (kg/m²)	Cover quality (Information)	Area of application
	Top	Bottom			Direction change	Necking				
3610	PVC	fabric	2	10	50	60	2.4	2.7	Cover quality may be enhanced for mechanical applications. Also possible are oil- and grease-resistant mixes or temperature resistant, up to +180 °C, qualities. The combination of different properties may additionally be realised.	Agriculture: e.g. triple combinations, stable belts, mechanical engineering
3729	PVC	fabric	3	13	80	140	3.6	4.3		Mechanical engineering, Z & L conveyors
3201	PVC	PVC check	1	9	25	40	2.0	2.4		Lateral seals
3202 B	PVC	PVC check	2	8	40	60	2.6	2.9		Agriculture: e.g. discharge conveyors, feeding conveyors, mechanical engineering
3206	PVC	PVC check	3	23	100	140	4.6	5.0		Mechanical engineering, Z & L conveyors
3642 A	PU	fabric	2	8	15	15	1.3	1.5		Accumulation conveyors, food industry
3665 A	PU	fabric	2	8	15	40	1.55	1.85		Accumulation conveyors, brickyards
3815	SI	fabric	1	5	10	30	1.1	0.9		Temperature applications in the food industry, non-stick applications
3830	SI	fabric	2	4	30	80	1.5	1.7		Temperature applications in the food industry, non-stick applications
3602 A	fabric	fabric	2	6	30	30	1.5	2.0		Accumulation conveyors, food industry
3602 LA	fabric	fabric	2	8	9 (knife edge R4,5 mm)	9	0.9	1.0		Accumulation conveyors, bakery belts
3685	fabric	fabric	2	10	25	30	1.5	1.8		Accumulation conveyors for: e.g. containers/ packages
felt 2.5	felt	felt	1	10	20	20	2.5	1.6		Cutter & punching belts, vacuum belts, UV-driers in the timber industry
felt 4.0	felt	felt	1	10	70	70	4.0	2.5		Cutter & punching belts, vacuum belts, UV-driers in the timber industry
felt 5.5	felt	felt	1	10	120	120	5.5	3.5		Cutter & punching belts, vacuum belts, UV-driers in the timber industry

Above examples constitute an excerpt from our product range. Other types available on request.
We will be happy to send you our complete program including samples.

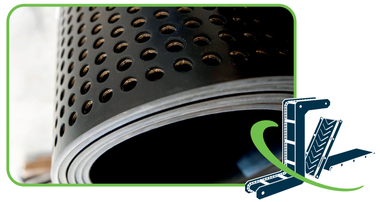
Conveyor Technology

A wide variety of different materials, coatings, and surface textures in industry customary colours for the production of rubber and plastic conveyor belts - this is the extensive product range of noltewerk.
A wide selection of covers, fabric inserts, transversely rigid or troughable designs, profiles with a variety of different types of connections and other conveyor belt options complete the CeNit® product range.
Therefore, we have a suitable solution for any material to be transported and incline.

Rubber conveyor belts

Type	Elongation at static load under refe-rence force (%)	Theoretical bond strength for staggered connections	Standard cover ratios		Minimum drum diameter (mm)		Approx. belt thickness (mm)		Cover quality (info)
	Reference force is 10 % of the mini-mum breaking strength (e.g. EP250/2 = 25N/mm)	acc. DIN 22102							
			rolling support	sliding support	transverse-ly rigid fabric	transversely rigid fabric	rolling support	sliding support	
250/2	1.50	50 % of belt breaking force	3:1	2:0	200	315	6.5	5.0	The main purpose of covers of conveyor belts is the protection of the carcass. Therefore, the covers must be selected in sufficient thickness to offer adequate resistance to the impacts applied. Cover quality may be enhanced for mechanical applications. Also possible are oil- and grease-resistant mixes or temperature resistant, up to +200 °C, qualities. The combination of different properties may additionally be realised.
315/2			3:1	3:0	250	on request	7.0	5.5	
400/2			2:2	on request	250	500	6.5	on request	
500/2			2:2	on request	315	on request	7.0	on request	
400/3	1.50	66 % of belt breaking force	4:2	3:0	315	400	8.9	8.0	
500/3			5:2	on request	315	630	9.8	on request	
500/4		75 % of belt breaking force	5:2	on request	400	500	10.5	on request	
630/4	2.50		6:2	on request	500	800	12.0	on request	
800/4			8:3	on request	630	on request	16.0	on request	
800/5		80 % of belt breaking force	8:3	on request	630	on request	16.8	on request	
1000/5			2:2	on request	800	on request	10.0	on request	
1250/5			1.5:1.5	on request	1,000	on request	11.0	on request	
1600/5	3.00		8:3	on request	1,000	on request	19.5	on request	
		Instead of staggered connections different variants of mechanical connectors may be used.			The carcass structure may be realized as a troughable or transversely rigid version. Furthermore, special finishes with puncture-resistant fabric or breaker inserts are also possible.				

Above examples constitute an excerpt from our product range. Other types available on request.
We will be happy to send you our complete program including samples.
*For cover ratios beyond aforementioned standard, larger drum diameters should be considered.



Conveyor Technology

On top: Numerous machining processes allow individual production of customized belts with cleats, carriers, and corrugated edges. CeNit® conveyor and process belts meet, produced according to drawings supplied by you or by us, the latest automation demands.
Our manufacturing and process knowledge, technical precision and craftsmanship are like cogs in a finely tuned machine to produce outstanding results. A further cog in this machine is the state-of-the-art machinery in operation with the ability of nesting material for optimum utilization.

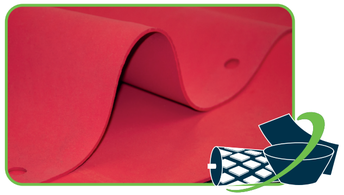
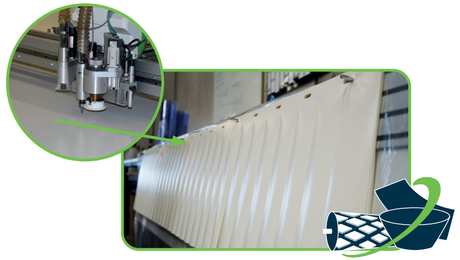
Elastomers

Type	Main properties	Hard-ness (°Sh A)	Tearing strength (N/mm²)	Elonga-tion at break (%)	Abrasion (mm³)	Temperature range (°C)	Area of application
NRV 60*	mechanical resistance	60	14	350	135	-20 up to +70	Delivery chute lining
NRV 40	mechanical resistance	40	19	600	120	-20 up to +70	Sleeves
2375 red	mechanical resistance	35	25	800	70	-40 up to +70	Sleeves, concrete industry
PU D44	mechanical resistance	70, 80, 90	40	600	35	-30 up to +80	Wear strips, scraper strips, mechanical highly stressed components
NBR/SBR 65	oil & grease resistance	65	5	250	not specified	-20 up to +70	Seals
NBR super	oil & grease resistance	60	11	400	not specified	-20 up to +80	Seals (specifically for fuels)
NBR/SBR P9540	oil & grease resistance	65	5	200	not specified	-20 up to +70	Seals
EPDM/SBR 65	weather and ozone resistance	65	3.	250	not specified	-20 up to +90	Sealings in outdoor applications
EPDM super	weather and ozone resistance	70	9	200	not specified	-40 up to +120	Sealings in outdoor applications or upon exposure to chemicals
EPDM heat	weather and ozone resis-tance	70	11	250	not specified	-40 up to +120	Sealings for short-term temperature range > +150 °C
SI (FDA)	temperature resistance	40, 50, 60	6	300	not specified	-80 up to +225	Sleeves for the food Industry
SI (RB)	temperature resistance	40, 50, 60	7	350	not specified	-80 up to +250	Sleeves for high temperature applications

Above examples constitute an excerpt from our product range. Other types, including foamed variants, are available on request.
We will be happy to send you our complete program including samples.
*With CN-contact layer

Elastomer Technology

Elastomers, silicones, splinter shield materials, technical fabrics as well as soft-PVC - the versatile range of products in elastomer technology completed by the following services: Individual made-to-order as custom-built production, serial production or individual production, prototype production and initial sampling as well as unprocessed retail goods as rolls/sheets or cuts for subsequent processing by the customer.
CNC-controlled machinery in operation allow us to produce material in varying shapes and large quantities with maximum efficiency. Our comprehensive manufacturing techniques such as water jetting, punching, plotting, or cutting are available in multi-shift-operations.

noltewerk laboratory

Our in-house laboratory examines each and every material by noltewerk with the utmost care. This is how we ensure the quality of incoming goods and it provides us with the ability to conduct additional individual tests. Tested are properties such as tearing strength, elongation at break, abrasion, tensile strength, and density. What is more, in the area of transparent plastics, we are able to make stress-fractures visible through the use of special fluids or refraction.