

Industrial Hose, ducting and accessories



simply flexible
N
NORRES



About us

NORRES GROUP WORLDWIDE HOSES FOR ALL PURPOSES

NORRES is a byword for:

- one of the global market leaders in its core business
- operative excellence with perfect service for our partners
- the trendsetter with flexible hose system solutions - with our more than 20 patents and protected designs, we aim to be the technological leader
- a lean, medium-sized business with an economical cost structure that has received numerous awards

NORRES – the internationally positioned group of companies

- Founded in 1889 in Gelsenkirchen
- Headquarters in Gelsenkirchen, Am Stadthafen
- Positioned as a leading international manufacturer of technical hoses and hose systems as well as technical high performance and plastic products

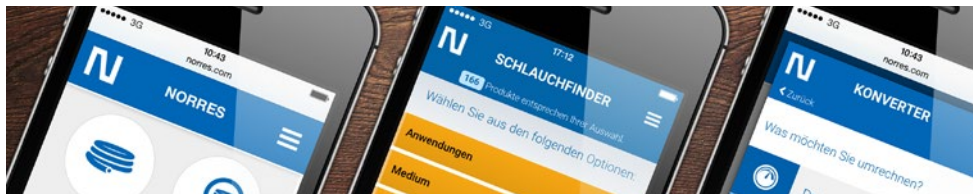


NORRES – Services for our customers

- Competence in consulting and quality
- Modern logistics concept for optimised delivery times
- Individual service packages for efficient customer concepts with market value
- Competent partner for successful long-term cooperation
- Custom-made customer solutions from the specialist for sophisticated hose solutions
- Extensive range of products for all industries

NORRES Services – Mobile and present throughout the world

- The NORRES Hose Finder – Always the correct hose selection
- The NORRES Converter – Always the right size – metric and imperial
- The NORRES Tools – Tracking and Stock enquiry
- The NORRES Customer Portal – Exclusively for NORRES customers: Goods information in real time
- The NORRES Service Promise: We keep our word – 24 hours to delivery, 48 hours until installation - for selected products and product lines



Industrial Hose, ducting and accessories



Polyurethane suction and transport hoses (Pre-PUR®)

AIRDUC®, PROTAPE®



Polyurethane (Pre-PUR®) food hoses

AIRDUC®, BARDUC®, CP, PROTAPE®



Hoses for the woodworking industry

TIMBERDUC®



PVC, PE, EVA and PUR air conditioning, ventilation hoses, welding fume extraction hoses

AIRDUC®, CP, EVA, PROTAPE®, SuperFlex



PVC BARDUC® and NORPLAST® suction hoses and pressure hoses

BARDUC®, NORPLAST®



Metal hoses

COOLING HOSE, METAL HOSE



Hot air hoses, high-temperature hoses (-200 .. +1.100 °C)

AIRDUC®, CP, NEO, PROTAPE®, SIL



Exhaust Gas Hoses

CP, PROTAPE®



Flame resistant hoses for the automotive industry

AIRDUC®, PROTAPE®



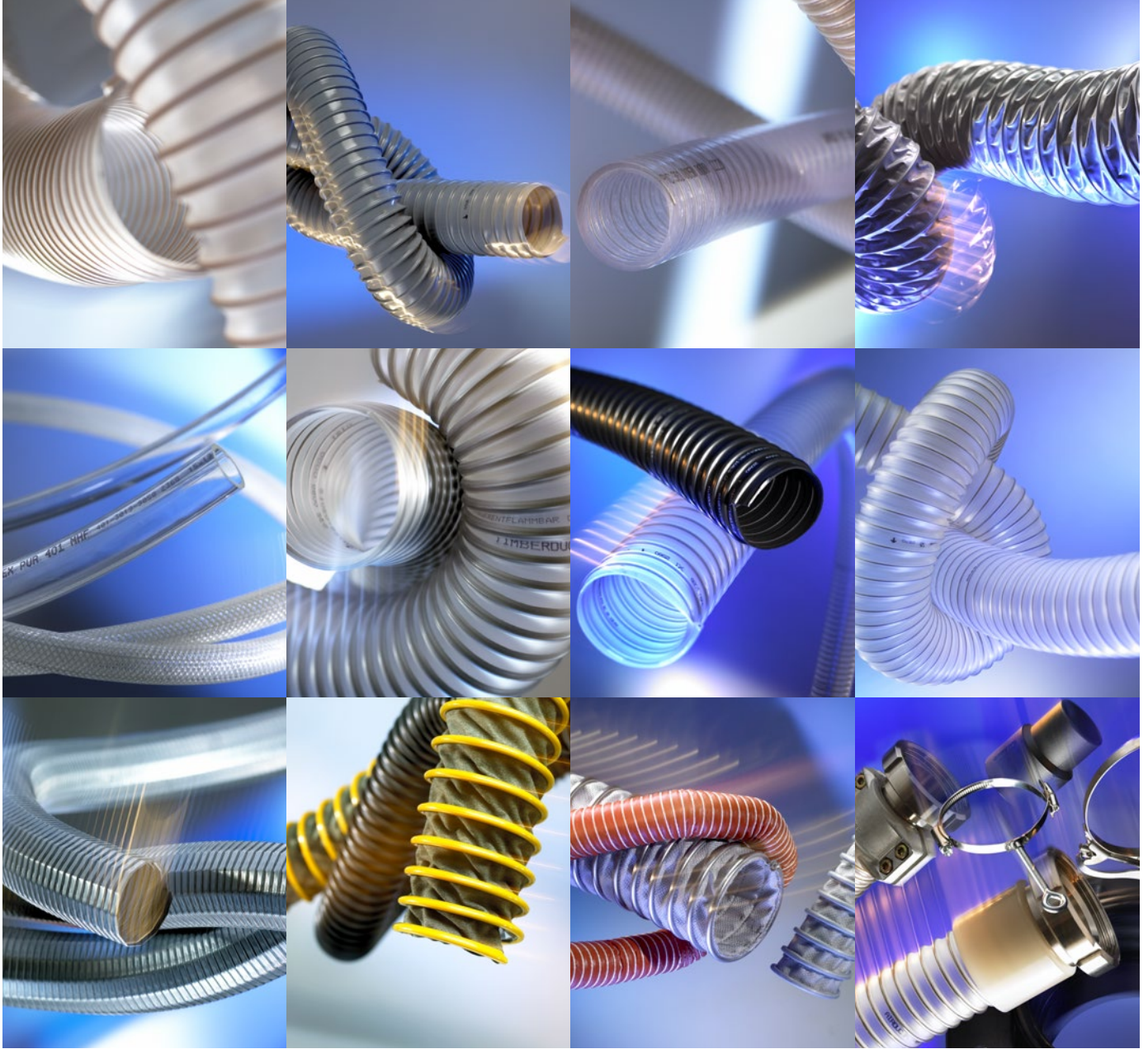
Compressed air hoses, pneumatic hoses

NORFLEX®



Accessories, hose clamps, connecting elements

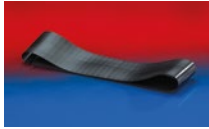
CLAMP, CONNECT



Accessories, hose clamps, connecting elements



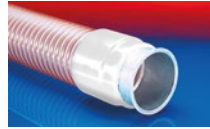
CLAMP 212



CONNECT 228



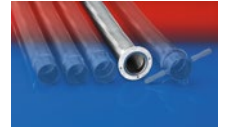
CONNECT DAIRY
FITTING 247



CONNECT 243 FOOD



CONNECT 246 FOOD



CONNECT 205



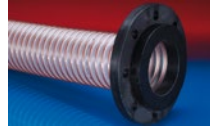
CLAMP 216



CONNECT 230



CONNECT ASEPTIC
FITTING 249



CONNECT 244



CONNECT 223



CONNECT 206



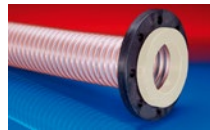
CLAMP 208



CONNECT SAFETY CLAMP
ASSEMBLY 231



CONNECT 240 + 241



CONNECT 244 FOOD



CONNECT 226



CLAMP 211



CONNECT PRESS
ASSEMBLY 232



CONNECT 240 EC



CONNECT 245 CONE
FLANGE



CONNECT 227



CLAMP 212 EC



CONNECT MOULD
ASSEMBLY 233



CONNECT 240 + 241 FOOD



CONNECT 245



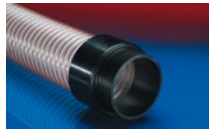
CONNECT 270-271



CLAMP 217



CONNECT THREAD
FITTING 234



CONNECT 242



CONNECT 245 FOOD



CONNECT 202



CLAMP 213



CONNECT TRI-CLAMP
FITTING 245



CONNECT 243



CONNECT 246



CONNECT 203-204



General:

Polyurethanes are not all the same!
As with all raw materials and finished goods, there are large differences in quality here as well.

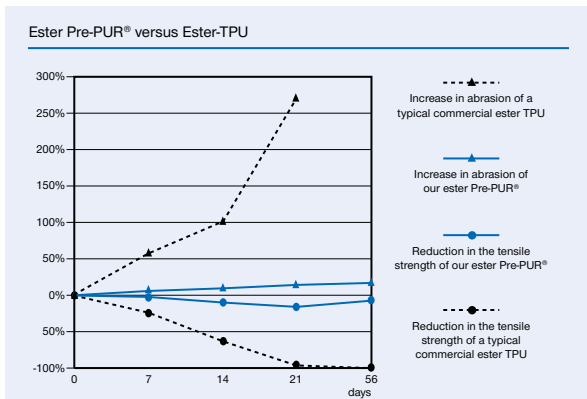
For many of its hoses, NORRES uses a special mixture called Pre-PUR®, containing an ester-polyurethane or an ether-polyurethane.

Compared to many other plastics, rubber formulations and "simple" polyurethanes, the block copolymers, which consist of hard and soft Pre-PUR® segments, have superior properties. The hard segments of Pre-PUR® provide extremely high mechanical stability, while at the same time the soft segments give the material high flexibility and dynamic load capacity.

An example of stability:

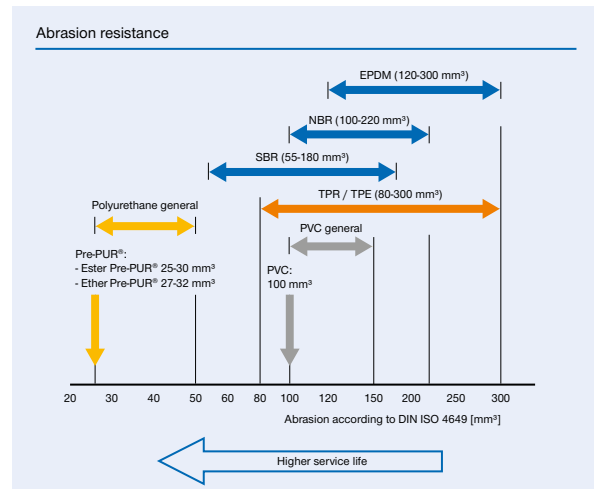
Our high-quality Pre-PUR® raw materials with special stabilizers demonstrate considerably better stability and significantly longer service life than can be obtained with many other products.

An appropriate measure of this is hydrolysis testing in water at 80°C, since the mechanism of chemical degradation of polyester-polyurethane is frequently hydrolysis of the polyester chains. Our ester Pre-PUR® is shown in Figure 1, compared with an other typical commercial ester TPU.



Example of abrasion resistance:

According to standard tests, the abrasion resistance of our Pre-PUR® polyurethanes is about two and a half to five times higher than for many rubber raw materials and about three to four times higher than for many soft PVC's (measured at 20°C). In applications, the differences are frequently even greater, because the excellent damping and impact resilience of Pre-PUR® polyurethanes does not come into play with the standard test method.





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