



VERSATILE

DIEPOTHAN

TAILOR-MADE
POURABLE

P+S YELLOW

APPROVAL

POLYURETHANE

HARDNESS RANGE RESISTANT

LIFETIME

ELASTOMERS

RED CONVINCING
ESTABLISHED



CONVINCING SOLUTIONS EXPERTISE

DIEPOTHAN®

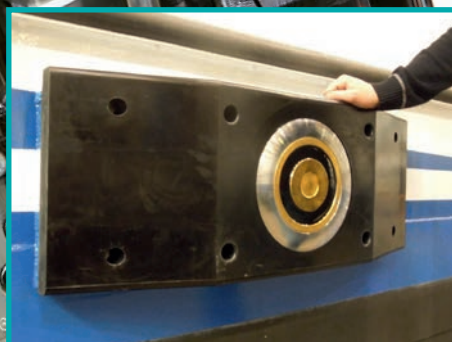
FOR EXTREME LOADS

The material Diepothan is a polyurethane elastomer with a solid structure and is similar to the material Vulkollan in its property profile. Designed and tailor made in our house, this material is characterized by a very advantageous combination of physical and chemical properties. This enables a wide range

of applications (based on polyester and / or polyether) – especially for extreme requirements. Moulded parts made of Diepothan convince by extreme load bearing capacity and are found in many areas of mechanical engineering – especially in applications with low Shore hardness but a high, constant elasticity.

At a glance: the profile of properties

- convincing high elasticity in the entire hardness range
- free from plasticizers
- good mechanical and dynamic load capacity
- hardness range from 45 Shore A to 98 Shore A (62 Shore D)
- good resistance to mineral oils, greases and gasoline
- good resistance to ozone, UV radiation and high-energy radiation
- temperature range of -30°C to + 80°C
- special qualities approved according to LFGB (Food, Commodities and Feed Code)
- hydrolysis-resistant settings





CONVINCING SOLUTIONS EXPERTISE

DIEPOTHAN®

EFFECTIVE CUSHION OF MOVING MASSES

Applications overview

- shipbuilding
- transport technology
- pipeline service
- competitive sport
- agricultural business
- paper and printing technology
- engineering
- conveyor systems
- automotive engineering
- carton production
- leisure sports and amusement
- ground care equipment
- inner plant transport

Diepothan has a low swelling behaviour towards water. Diepothan is available in the hardness range of 45-98° Shore A (62 Shore D) and free from plasticizers. Additionally, Diepothan is characterized by its good resistance to mineral oils and greases. It is useable in a wide temperature range which extends from -30°C up to + 80°C.

We are daily faced with different challenges by our customers. Thanks to our numerous tailor-made Diepothan qualities which can be adjusted according to our customer requirements, Diepothan is suitable for solving the most varied tasks. With the ability to adjust settings of hydrolysis, our resistant Diepothan can be used in seawater and in tropical climate conditions as well. Furthermore, certain recipes are approved according to German Food and Feed Act (LFGB) for usage in food and beverage processing industry.



Diepothan elastomer springs

Elastomer springs are characterized by a good mechanical resistance and high impact elasticity even at very hard versions. In our company, these outstanding material advantages of Diepothan are used consistent and adjusted to application need for the production of elastomer springs.

Maintenance-free P + S elastomer springs are used around the globe for the effective mitigation of moving masses. Another important application area is the reliable and effective isolation of vibration exciter.

loading values PUR-springs according to DIN ISO 10069-1 Diepothan® red 90 Shore A

dimension Aø x Iø x L mm	elastic force F = N	deflection mm
16 x 6,5 x 16	1.700	4,00
x 20	1.600	5,00
x 25	1.550	6,25

20 x 8,5 x 16	2.400	4,00
x 20	2.350	5,00
x 25	2.300	6,25
x 32	2.250	8,00

25 x 10,5 x 20	4.000	5,00
x 25	3.750	6,25
x 32	3.600	8,00
x 40	3.600	10,00

32 x 13,5 x 32	5.700	8,00
x 40	5.700	10,00
x 50	5.700	12,50
x 63	5.700	15,75

40 x 13,5 x 32	9.750	8,00
x 40	9.500	10,00
x 50	9.200	12,50
x 63	9.200	15,75
x 80	9.000	20,00

50 x 17,0 x 32	15.000	8,00
x 40	15.000	10,00
x 50	15.000	12,50
x 63	14.800	15,75
x 80	14.000	20,00
x 100	14.000	25,00

dimension Aø x Iø x L mm	elastic force F = N	deflection mm
63 x 17 x 32	26.000	8,00
x 40	25.000	10,00
x 50	25.000	12,50
x 63	24.000	15,75
x 80	24.000	20,00
x 100	24.000	25,00
x 125	23.000	31,25

80 x 21 x 32	44.000	8,00
x 40	43.000	10,00
x 50	42.000	12,50
x 63	40.000	15,75
x 80	38.000	20,00
x 100	38.000	25,00
x 125	38.000	31,75

100 x 21 x 32	73.000	8,00
x 40	73.000	10,00
x 50	71.000	12,50
x 63	71.000	15,75
x 80	67.000	20,00
x 100	67.000	25,00
x 125	67.000	31,75

125 x 27 x 32	126.000	8,00
x 40	126.000	10,00
x 50	126.000	12,50
x 63	115.000	15,75
x 80	115.000	20,00
x 100	115.000	25,00
x 125	105.000	31,75
x 160	105.000	40,00

deflection = 25% of the original height
elastic force at 25% deflection
permanent dynamic strain to max. 25% compression

Reserve technical changes!

Product overview

- fenders in shipbuilding
- glass supports
- cleaning & inspection pigs and pot cuffs in pipeline service
- pressure rollers
- rollers for competitive sports
- gripper
- carrier and bearing bushing
- drive and transport rollers
- no-crush rolls
- strippers
- elastomer springs
- membranes
- cutting bars
- silencer
- brake rings
- and semi-finished products for individual further processing

P+S Polyurethan-Elastomere