TECHNICAL DELIVERY SPECIFICATION

Hydynamic -Pipes made from polyamide Edition: 01.07.2025

1. Scope

This Technical Delivery Specification applies to Hydynamic-pipes 6x1,5

made from PA 362 and PA 5224.

2. Designation

PA 6x1.5 tubes in various roll lengths. (0620-....-..... series)

3. Material / material properties

PA 362 – Polyamide PA12 HL

(Polyamide 6.12 black, free from plasticizer, heat-stabilized and impact modified)

PA 5224 – Polyamid PA12 PHLY acc. to DIN 73378 & DIN 74324

(Polyamide 12 plasticized, highly flexible, heat-stabilized and impact modified)

Material property	PA 362 (PA12 HL)	PA 5224 (PA12 PHLY)
Density DIN EN ISO 1183	1,07 ± 0,02 g/cm³	1,02 ± 0,02 g/cm³
Hardness Shore D DIN EN ISO 868	74 ± 5	65 ± 5
Tensile stress at break DIN EN ISO 527- 1/2	≥ 45 MPa	≥ 25 MPa
Nominal elongation at break DIN EN ISO 527- 1/2	≥ 50 %	≥ 3 %

Application temperature range: - 40° C up to + 100° C, short-term up to + 160 °C for PA362 and + 125 °C for PA5224.
The information given here is based on empirical values. The values provided shall be regarded as non-binding

4. Dimensions / tolerances / color

HH-Art.	Dimension	Material	Outer-Ø [mm]	Wall thickness [mm]	Color
0620-0004-0603	6x1.5	PA 362	6.00 ± 0.10	1.50 ± 0.10	Black, 98300
0620-0007-0603		PA 5224			Black, 98300

6. Pressure resistance / bending radius

HH-Art.	Dimension	Material	Working pressure* [bar]	Burst pressure* [bar]	Bending radius* [mm]
0620-0004-0603	6x1.5	PA 362	Max. 89	Min. 267	Min. 40
0620-0007-0603	6x1.5	PA 5224	Max. 60	Min. 180	Min. 35

* Reference values acc. to DIN 73378 and DIN 74324.

The max. permitted working pressure values mentioned in the chart above consider a safety factor of 3. A use of the pipes at a higher working pressure is not recommended by Hydynamic. It does reduce the safety factor and can result in an early failure of the pipes.