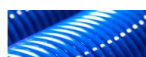
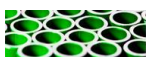


TECHNICAL DATASHEET

PA 12 AN

Material	Plasticized Polyamide 12 (PA12) with antistatic additive																			
Product code	PA34																			
Product type	<ul style="list-style-type: none"> - Hoses - Spirals - Tubes 																			
Application	Hoses and tubes for pneumatic applications																			
Characteristics	<p>Unique flexible antistatic pneumatic hose with good mechanical and chemical properties. The antistatic behaviour of the hose makes it an ideal candidate in applications with possible static build-up.</p> <table> <tr> <td>Chemical:</td> <td>Good resistance to oil products, petrol, fatty substances, lubricants, and solvents such as alcohol, ketones, esters, and ether. Limited/poor resistance to many acids, strong bases, oxidizing agents, and chlorine-based products <i>Please see separate chemical resistance chart for details</i></td> </tr> <tr> <td>Pressure:</td> <td>Very good</td> </tr> <tr> <td>UV- & weather:</td> <td>Excellent</td> </tr> <tr> <td>Working temperature:</td> <td>-40°C to +100°C</td> </tr> <tr> <td>Flame resistance:</td> <td>-</td> </tr> <tr> <td>Surface hardness:</td> <td>Shore D 63</td> </tr> <tr> <td>Flexural modulus:</td> <td>340 MPa</td> </tr> <tr> <td>Moisture absorption:</td> <td>< 1,6 %</td> </tr> <tr> <td>Remarks:</td> <td>Surface resistivity max. 10⁶ Ω * cm</td> </tr> </table>		Chemical:	Good resistance to oil products, petrol, fatty substances, lubricants, and solvents such as alcohol, ketones, esters, and ether. Limited/poor resistance to many acids, strong bases, oxidizing agents, and chlorine-based products <i>Please see separate chemical resistance chart for details</i>	Pressure:	Very good	UV- & weather:	Excellent	Working temperature:	-40°C to +100°C	Flame resistance:	-	Surface hardness:	Shore D 63	Flexural modulus:	340 MPa	Moisture absorption:	< 1,6 %	Remarks:	Surface resistivity max. 10 ⁶ Ω * cm
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Surface hardness:	Shore D 63																			
Flexural modulus:	340 MPa																			
Moisture absorption:	< 1,6 %																			
Remarks:	Surface resistivity max. 10 ⁶ Ω * cm																			
Standard/Norms	-																			
Compliance	<ul style="list-style-type: none"> - EC Regulation 1907/2006 (REACH) - Directive 2011/65/EU (ROHS) - Do not contain dual use additives 																			
Approval	Not approved for food contact																			
Color	Standard:	Black																		
	Specialties:	Not possible																		
Print	White printing at an additional charge																			
Packaging	Free coils, coils in carton boxes or plastic bags and on spools <i>Please see separate data sheet for packaging options</i>																			



TECHNICAL DATASHEET

Data overview

Specification of tolerances, bending radius and working pressure for standard dimensions

Tolerance: Produced in accordance with DIN 16982
 Bending radius: 90° bending with min. deformation at 20°C
 Working pressure: Theoretical value based on hoop stress data and a safety factor of 2,5 of burst pressure. Working pressure is stated for air only.

Dimension mm	Tolerance mm		Weight g/m	Bending mm	Working pressure bar				
	OD	ID			20°C	30°C	50°C	60°C	80°C
4,0/2,0	+/-0,1	+/-0,1	9,8	10	43	-	-	-	-
4,0/2,5	+/-0,1	+/-0,1	8,0	-	30	-	-	-	-
5,0/2,0	+/-0,1	+/-0,1	9,8	-	56	-	-	-	-
5,0/3,0	+/-0,1	+/-0,1	13,1	20	33	-	-	-	-
6,0/3,0	+/-0,1	+/-0,1	22,1	-	43	-	-	-	-
6,0/4,0	+/-0,1	+/-0,1	16,3	20	26	-	-	-	-
6,0/4,5	+/-0,1	+/-0,1	12,9	-	18	-	-	-	-
7,0/5,0	+/-0,1	+/-0,1	19,6	-	22	-	-	-	-
8,0/5,0	+/-0,1	+/-0,1	31,9	30	30	-	-	-	-
8,0/5,5	+/-0,1	+/-0,1	27,6	-	24	-	-	-	-
8,0/6,0	+/-0,1	+/-0,1	22,9	40	18	-	-	13	8
9,0/7,0	+/-0,1	+/-0,1	26,1	-	16	-	-	-	-
10,0/6,0	+/-0,1	+/-0,1	52,3	-	33	-	-	-	-
10,0/7,0	+/-0,1	+/-0,1	41,7	-	23	-	-	-	-
10,0/7,5	+/-0,1	+/-0,1	35,8	-	18	-	-	-	-
10,0/8,0	+/-0,1	+/-0,1	29,4	50	14	-	-	-	-
12,0/8,0	+/-0,1	+/-0,1	65,4	-	26	-	-	-	-
12,0/9,0	+/-0,1	+/-0,1	51,5	50	18	-	-	-	-
12,0/9,5	+/-0,1	+/-0,1	43,9	60	15	-	-	-	-
12,0/10,0	+/-0,1	+/-0,1	36,0	-	12	-	-	-	-
14,0/12,0	+/-0,1	+/-0,1	42,5	100	10	-	-	-	-
16,0/12,0	+/-0,15	+/-0,15	91,5	80	18	-	-	-	-
16,0/13,0	+/-0,15	+/-0,15	71,1	-	13	-	-	-	-
18,0/16,0	+/-0,15	+/-0,15	55,6	-	7	-	-	-	-
20,0/16,0	+/-0,15	+/-0,15	117,7	120	14	-	-	-	-
20,0/18,0	+/-0,15	+/-0,15	62,1	-	7	-	-	-	-
22,0/18,0	+/-0,15	+/-0,15	130,7	-	13	-	-	-	-
24,0/20,0	+/-0,15	+/-0,15	143,8	-	12	-	-	-	-
26,0/22,0	+/-0,15	+/-0,15	156,9	-	11	-	-	-	-

Origin

Products are "Made in Denmark" and raw material for the products originates from the EU

Documentation

Specific documentation is available for:

- chemical resistance
- permeability
- antistatic classification
- standard tolerances
- packaging
- regulatory status

The information contained in this document is based on information obtain from raw material suppliers, data selected from the literature and specific testing, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specifications define the limit of our commitment. No liability whatsoever can be accepted by Knudsen Extrusion ApS regarding the handling or use of the product or products concerned which must in all cases be employed in accordance with all relevant laws and/or regulations in force in the country or countries concerned.

