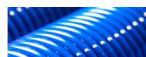
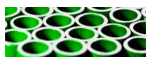


TECHNICAL DATASHEET

LDPE

Material	Low density polyethylene (LDPE)																								
Product code	PE02																								
Product type	<ul style="list-style-type: none"> - Hoses - Spirals - Tubes - Tapes 																								
Application	<ul style="list-style-type: none"> - Hoses and tubes for pneumatic applications - Tapes 																								
Characteristics	<p>LDPE is a commodity material, which combines an elastic behavior with a very good impact resistance. LDPE should only be used as pneumatic hose at lower temperatures and pressure</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Chemical:</td> <td>Good</td> </tr> <tr> <td></td> <td>- Resistant to most organic solvents and chemicals</td> </tr> <tr> <td></td> <td>- Very good resistance to hydrolysis</td> </tr> <tr> <td></td> <td><i>Please see separate chemical resistance chart for details</i></td> </tr> <tr> <td>Pressure:</td> <td>Poor</td> </tr> <tr> <td>UV- & weather:</td> <td>Poor, but can be improved by additives such as carbon black</td> </tr> <tr> <td>Working temperature:</td> <td>-20°C to +50°C</td> </tr> <tr> <td>Flame resistance:</td> <td>-</td> </tr> <tr> <td>Surface hardness:</td> <td>Shore D 51</td> </tr> <tr> <td>Flexural modulus:</td> <td>300 MPa</td> </tr> <tr> <td>Moisture absorption:</td> <td>< 0 %</td> </tr> <tr> <td>Remarks:</td> <td>-</td> </tr> </table>	Chemical:	Good		- Resistant to most organic solvents and chemicals		- Very good resistance to hydrolysis		<i>Please see separate chemical resistance chart for details</i>	Pressure:	Poor	UV- & weather:	Poor, but can be improved by additives such as carbon black	Working temperature:	-20°C to +50°C	Flame resistance:	-	Surface hardness:	Shore D 51	Flexural modulus:	300 MPa	Moisture absorption:	< 0 %	Remarks:	-
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Moisture absorption:	< 0 %																								
Remarks:	-																								
Standard/Norms	<ul style="list-style-type: none"> - Raw material approved for food contact according to FDA 21 CFR 177.1520 (USA) 																								
Compliance	<ul style="list-style-type: none"> - EC Regulation 1907/2006 (REACH) - Directive 2011/65/EU (ROHS) - Do not contain dual use additives 																								
Approval	Finished products cannot be used for food contact according to EU regulations such as EU regulations no. 2023/2006, 1935/2004 or 10/2011 as the material has not been tested for migration.																								
Color	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Standard:</td> <td>Natural (semi-transparent), white, black, grey, orange, yellow, green and blue</td> </tr> <tr> <td>Specialties:</td> <td>Special colors at an additional charge</td> </tr> </table>	Standard:	Natural (semi-transparent), white, black, grey, orange, yellow, green and blue	Specialties:	Special colors at an additional charge																				
Standard:	Natural (semi-transparent), white, black, grey, orange, yellow, green and blue																								
Specialties:	Special colors at an additional charge																								
Print	Black or white printing at an additional charge																								



TECHNICAL DATASHEET

Packaging

Free coils, coils in carton boxes or plastic bags and on spools
Please see separate data sheet for packaging options

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 (air) bar				
	OD	ID			20°C	30°C	40°C	50°C	60°C
4,0/2,0	+/-0,1	+/-0,1	8,8	18	20	13	10	7	5
5,0/3,0	+/-0,1	+/-0,1	11,7	25	15	10	8	5	4
6,0/4,0	+/-0,1	+/-0,1	14,6	30	12	8	6	4	3
7,0/5,0	+/-0,1	+/-0,1	17,5	35	10	7	5	3	2
8,0/5,0	+/-0,1	+/-0,1	28,5	40	13	9	7	4	3
8,0/6,0	+/-0,1	+/-0,1	20,5	40	8	5	4	3	2
9,0/6,0	+/-0,1	+/-0,1	32,9	-	12	8	6	4	3
9,0/7,0	+/-0,1	+/-0,1	23,4	45	7	5	4	2	2
10,0/6,0	+/-0,1	+/-0,1	46,8	55	15	10	8	5	4
10,0/7,0	+/-0,1	+/-0,1	37,3	60	10	7	5	3	2
10,0/8,0	+/-0,1	+/-0,1	26,3	60	6	4	3	2	2
12,0/8,0	+/-0,1	+/-0,1	58,5	60	12	8	6	4	3
12,0/9,0	+/-0,1	+/-0,1	46,0	65	8	5	4	3	2
12,0/10,0	+/-0,1	+/-0,1	32,2	80	5	3	3	2	1
14,0/10,0	+/-0,1	+/-0,1	70,1	80	10	7	5	3	3
15,0/12,0	+/-0,1	+/-0,1	59,2	85	6	4	3	2	2
16,0/12,0	+/-0,15	+/-0,15	81,8	100	8	5	4	3	2
16,0/13,0	+/-0,15	+/-0,15	63,6	-	6	4	3	2	2
19,0/16,0	+/-0,15	+/-0,15	76,7	-	5	3	3	2	1
20,0/16,0	+/-0,15	+/-0,15	105,2	150	6	4	3	2	2
22,0/18,0	+/-0,15	+/-0,15	116,9	-	6	4	3	2	2

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.

