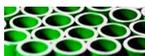


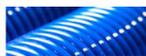
TECHNICAL DATASHEET

HDPE

Material	High Density Polyethylene (HDPE)
Product code	PE04
Product type	<ul style="list-style-type: none"> - Hoses - Tubes - Rods
Application	Hoses and tubes for low pressure pneumatic and industrial applications
Characteristics	<p>HDPE is a commodity material, which is stronger and more rigid than LDPE, but with a less good impact resistance. HDPE is very suitable for profiles due to its abrasion resistance and low friction.</p> <p>Chemical: Good resistant to most organic solvents and chemicals at room temperature and very good resistance to hydrolysis. <i>Please see separate chemical resistance chart for details.</i></p> <p>Pressure: Poor</p> <p>UV- & weather: Poor, but can be improved by additives such as carbon black.</p> <p>Working temperature: -50°C to +70°C</p> <p>Flame resistance: -</p> <p>Surface hardness: Shore D 60</p> <p>Flexural modulus: 1.000 MPa</p> <p>Moisture absorption: 0 %</p> <p>Remarks: -</p>
Standard/Norms	N/A
Compliance	<ul style="list-style-type: none"> - EC Regulation 1907/2006 (REACH) - Directive 2011/65/EU (ROHS) - Do not contain dual use additives
Approval	<p>Fulfils and is in accordance with the relevant requirements in:</p> <ul style="list-style-type: none"> - EU Commission Regulation no. 2023/2006 (<i>GMP</i>) - EU Commission Regulation no. 1935/2004 (<i>Items for food contact</i>) - EU Commission Regulation no. 10/2011 (<i>Plastic materials and items for food contact</i>) - FDA (USA) Regulation 21 CFR 177.1520 - Medical use according to USP XXIV Class VI <p><i>Please request declaration of conformity for further information and specifications on dimensions.</i></p>



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TECHNICAL DATASHEET

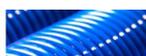
Color	Standard: Natural (transparent) Specialities: Colours approved for food contact can be used, but independent analysis necessary by external institute and at an additional charge
Print	Black and white printing at an additional charge
Packaging	Free coils, coils in carton boxes or plastic bags and on spools <i>Please see separate data sheet for packaging options</i>
Data overview	Specification of tolerances, bending radius and working pressure for standard hose 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
6,0/4,0	+/-0,1	+/-0,1	15,1	35	33				
8,0/5,0	+/-0,1	+/-0,1	29,4	40	38				
8,0/5,5	+/-0,1	+/-0,1	25,5						
8,0/6,0	+/-0,1	+/-0,1	21,1	40	24				
9,0/6,0	+/-0,1	+/-0,1	33,9						
10,0/6,0	+/-0,1	+/-0,1	48,3						
10,0/7,0	+/-0,1	+/-0,1	38,5						
10,0/8,0	+/-0,1	+/-0,1	27,2	60	19				
12,0/8,0	+/-0,1	+/-0,1	60,3						
12,0/9,0	+/-0,1	+/-0,1	47,5	70	24				
12,0/9,5	+/-0,1	+/-0,1	40,5						
12,0/10,0	+/-0,1	+/-0,1	33,2						
14,0/9,0	+/-0,15	+/-0,15	86,7						
14,0/10,0	+/-0,15	+/-0,15	72,4						
14,0/12,0	+/-0,15	+/-0,15	39,2						
14,5/12,0	+/-0,15	+/-0,15	50,0						
16,0/11,0	+/-0,2	+/-0,2	101,8						
16,0/12,0	+/-0,2	+/-0,2	84,5						
18,0/14,0	+/-0,2	+/-0,2	96,5						
20,0/16,0	+/-0,2	+/-0,2	108,6						
22,0/18,0	+/-0,2	+/-0,2	120,7						
25,0/20,0	+/-0,2	+/-0,2	169,7						
28,0/24,0	+/-0,2	+/-0,2	156,9						
32,0/28,0	+/-0,3	+/-0,3	181,0						

Origin Products are “Made in Denmark” and raw material for the products originates from EU or EFTA countries.



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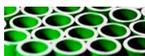
TECHNICAL DATASHEET

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.



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