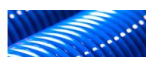
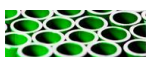


TECHNICAL DATASHEET

PUR T98 FOOD

Material	Compound based on thermoplastic polyether-based polyurethane																		
Product code	PU15																		
Product type	<ul style="list-style-type: none"> - Hoses - Tubes - Spirals - Tapes (non-adhesive) 																		
Application	Hoses and tubes for low pressure pneumatic applications in food processing environment																		
Characteristics	<p>High quality flexible pneumatic hose with good mechanical properties, resistance to kink, hydrolysis and microorganisms. Often used where minimum bending radius is required. Approved for food contact according to EU regulations.</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;">Chemical:</td> <td> <p>Good resistance, but should not be used for strong acids, alkali and dissolvent Good resistance to hydrolysis and microorganisms <i>Please see separate chemical resistance chart for details</i></p> </td> </tr> <tr> <td style="vertical-align: top;">Pressure:</td> <td>Medium</td> </tr> <tr> <td style="vertical-align: top;">UV- & weather:</td> <td>Poor unless special additives is added</td> </tr> <tr> <td style="vertical-align: top;">Working temperature:</td> <td>-50°C to +60°C</td> </tr> <tr> <td style="vertical-align: top;">Flame resistance:</td> <td>HB (UL 94)</td> </tr> <tr> <td style="vertical-align: top;">Surface hardness:</td> <td>Shore A98</td> </tr> <tr> <td style="vertical-align: top;">Flexural modulus:</td> <td>160 MPa</td> </tr> <tr> <td style="vertical-align: top;">Moisture absorption:</td> <td>-</td> </tr> <tr> <td style="vertical-align: top;">Remarks:</td> <td> <ul style="list-style-type: none"> - Not recommended for quick connectors - Sterilization can be done by autoclave at 120°C for applications such as short term body contact. For long term contact with the human body or with body liquids as blood, sterilization by ethylene oxid or gamma beam is recommended. Steam sterilization is not recommended, if the extruded hose is intended for long term contact with the human body or with body liquids as blood. </td> </tr> </table>	Chemical:	<p>Good resistance, but should not be used for strong acids, alkali and dissolvent Good resistance to hydrolysis and microorganisms <i>Please see separate chemical resistance chart for details</i></p>	Pressure:	Medium	UV- & weather:	Poor unless special additives is added	Working temperature:	-50°C to +60°C	Flame resistance:	HB (UL 94)	Surface hardness:	Shore A98	Flexural modulus:	160 MPa	Moisture absorption:	-	Remarks:	<ul style="list-style-type: none"> - Not recommended for quick connectors - Sterilization can be done by autoclave at 120°C for applications such as short term body contact. For long term contact with the human body or with body liquids as blood, sterilization by ethylene oxid or gamma beam is recommended. Steam sterilization is not recommended, if the extruded hose is intended for long term contact with the human body or with body liquids as blood.
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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 																		



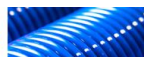
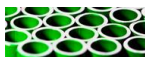
TECHNICAL DATASHEET

Approval	Fulfills and is in accordance with the relevant requirements in:		
	<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 177.2600 "Rubber Articles Intended for Repeated Use" 		
	<i>Please request declaration of conformity for further information and specifications on dimensions</i>		
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 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 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	40°C	60°C	80°C*
4,0/2,0	+/-0,1	+/-0,1	11,0	10	23,5		18,9	15,9	14,9
4,0/2,5	+/-0,1	+/-0,1	9,0		32,0		25,8	21,7	20,4
5,0/3,0	+/-0,1	+/-0,1	14,7	12	17,6		14,2	12,0	11,2
6,0/4,0	+/-0,1	+/-0,1	18,4	20	14,1		11,3	9,6	9,0
8,0/5,0	+0,2/-0,1	+/-0,1	35,9		16,3		13,1	11,0	10,3
8,0/5,5	+0,2/-0,1	+/-0,1	31,0	25	13,1		10,5	8,9	8,3
8,0/6,0	+0,2/-0,1	+/-0,1	25,7	30	10,1		8,1	9,8	6,4
9,0/6,0	+0,2/-0,1	+0,2/-0,1	41,4		15,0		12,0	10,1	9,5
10,0/6,5	+0,2/-0,1	+0,2/-0,1	53,1		12,4		10,0	8,4	7,9
10,0/7,0	+0,2/-0,1	+0,2/-0,1	46,9	35	7,8		6,3	5,3	5,0
10,0/8,0	+0,2/-0,1	+0,2/-0,1	33,1	40	14,1		11,3	9,6	9,0
12,0/8,0	+0,2/-0,1	+0,2/-0,1	73,5	45	10,1		8,1	6,8	6,4
12,0/9,0	+0,2/-0,1	+0,2/-0,1	57,9		13,5		10,9	9,2	8,6
14,0/9,5	+/-0,2	+/-0,2	97,2		13,1		10,8	8,9	8,3
16,0/11,0	+/-0,2	+/-0,2	124,1	60	23,5		18,9	15,9	14,9

* Recommend working temperature is max. 60°C

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



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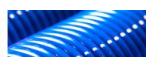
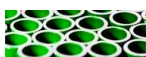
TECHNICAL DATASHEET

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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