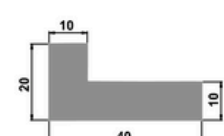
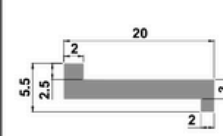
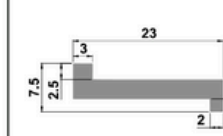
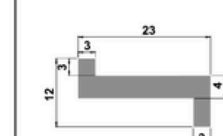
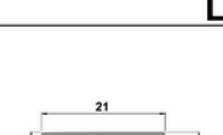
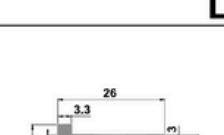
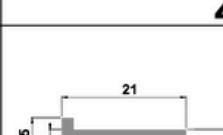
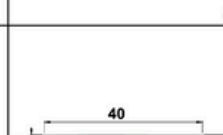
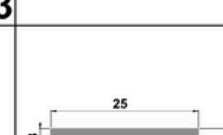
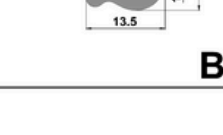
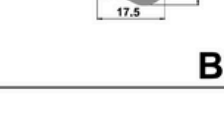
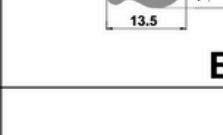
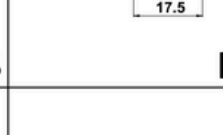
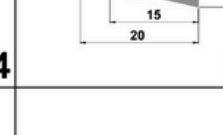
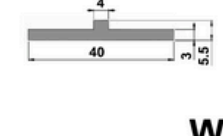
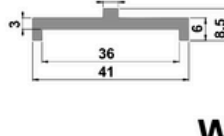
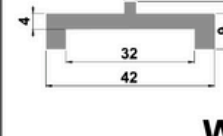
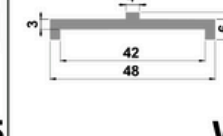
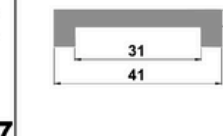
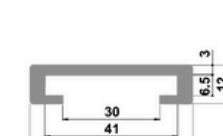

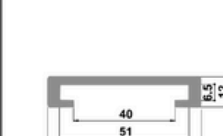


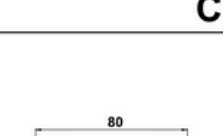
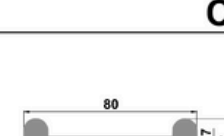
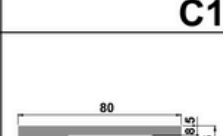
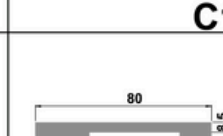
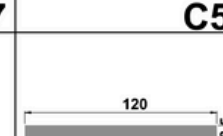
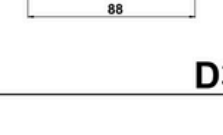
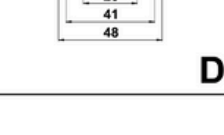
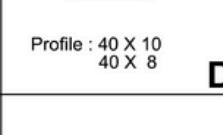
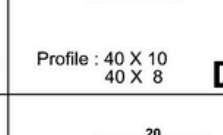
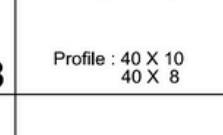
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 <b>W1</b>	 <b>W4</b>	 <b>W5</b>	 <b>W7</b>	 <b>C2</b>
 <b>C7</b>	 <b>C9</b>	 <b>C15</b>	 <b>C17</b>	 <b>C533</b>
 <b>D3</b>	 <b>D6</b>	 <b>D7</b>	 <b>D8</b>	 <b>D9</b>
 <b>D10</b>	 <b>I1</b>	 <b>I2</b>	 <b>I3</b>	 <b>I4</b>
 <b>T1</b>	 <b>T2</b>	 <b>T3</b>	 <b>U1</b>	 <b>U2</b>





<p><b>N28</b></p>	<p><b>N35</b></p>	<p><b>N15</b></p>	<p><b>N14</b></p>	<p><b>40x8</b></p>
<p><b>40x10</b></p>	<p><b>41x3</b></p>	<p><b>42x6</b></p>	<p><b>45x5</b></p>	<p><b>50x3</b></p>
<p><b>50x6</b></p>	<p><b>50x10</b></p>	<p><b>60x3</b></p>	<p><b>60x8</b></p>	





## Technical data sheet

### UHMWPE

#### Product characteristics

- High abrasion and wear resistance
- Low coefficient of friction
- High impact strength

#### Typical field of application

- Bottling and food industry
- Mechanical engineering
- Bearing and packing industry

	Test method	Unit	Value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	0,93
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	20
Elongation at break	DIN EN ISO 527	%	>200
Tensile modulus of elasticity	DIN EN ISO 527	MPa	680
Notched impact strength (charpy)	DIN EN ISO 179	kJ/m <sup>2</sup>	no break
Shore hardness	DIN EN ISO 868	scale D	63
Wear resistance	Sand-slurry		80
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	135
Thermal conductivity	DIN 52612-1	W / (m * K)	0,40
Thermal capacity	DIN 52612	kJ / (kg * K)	1,90
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> K <sup>-1</sup>	150-230
Service temperature, long term	Average	°C	-250 ...80
Service temperature, short term (max.)	Average	°C	130
Heat deflection temperature	DIN EN ISO 306, Vicat B	°C	79
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		2,3
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250		0,0001
Volume resistivity	IEC 60093	Ω *cm	>10 <sup>14</sup>
Surface resistivity	IEC 60093	Ω	>10 <sup>14</sup>
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV/mm	45

