



## Material data sheet

## L-TPU blue

### Low temperature hydrolysis resistant thermoplastic polyurethane

resistant to low temperature, oil, petrol, hot air, ozone

<i>Properties</i>	<i>Condition</i>	<i>Standard</i>	<i>Unit</i>			
<b>Colour</b>				<b>blue</b>		
<b>Hardness</b>	<b>23°C</b>	<b>ISO 868</b>	<b>Shore A</b>	<b>96+/-2</b>	<b>Shore A</b>	<b>96+/-2</b>
<b>Hardness</b>	<b>23°C</b>	<b>ISO 868</b>	<b>Shore D</b>	<b>47+/-3</b>	<b>Shore D</b>	<b>47+/-3</b>
<b>Modulus 100%</b>	<b>23°C</b>	<b>DIN 53 504</b>	<b>MPa</b>	<b>12</b>	<b>Psi</b>	<b>1740</b>
<b>Modulus 300%</b>	<b>23°C</b>	<b>DIN 53 504</b>	<b>MPa</b>	<b>22</b>	<b>Psi</b>	<b>3190</b>
<b>Tensile strength</b>	<b>23°C</b>	<b>DIN 53 504</b>	<b>MPa</b>	<b>50</b>	<b>Psi</b>	<b>7250</b>
<b>Elongation at break</b>	<b>23°C</b>	<b>DIN 53 504</b>	<b>%</b>	<b>550</b>	<b>%</b>	<b>550</b>
<b>Tear strength</b>	<b>23°C</b>	<b>DIN ISO 34-1 Methode B</b>	<b>kN/m</b>	<b>80</b>	<b>Lbf/inch</b>	<b>450</b>
<b>Spec. Gravity</b>	<b>23°C</b>	<b>ISO 1183</b>	<b>kg/m<sup>3</sup></b>	<b>1170</b>	<b>g/cm<sup>3</sup></b>	<b>1,17</b>
<b>Abrasion</b>	<b>23°C</b>	<b>DIN 53 516</b>	<b>mm<sup>3</sup></b>	<b>17</b>	<b>mm<sup>3</sup></b>	<b>17</b>
<b>Compression set</b>	<b>*</b>	<b>ISO 815</b>	<b>%</b>	<b>27</b>	<b>%</b>	<b>27</b>
<b>Compression set</b>	<b>**</b>	<b>ISO 815</b>	<b>%</b>	<b>33</b>	<b>%</b>	<b>33</b>
<b>Minimum service temperature</b>			<b>°C</b>	<b>-50</b>	<b>°F</b>	<b>-58</b>
<b>Maximum service temperature</b>			<b>°C</b>	<b>110</b>	<b>°F</b>	<b>230</b>
<b>*24h 70°C 20% deflection</b>				<b>**24h 100°C 25% deflection</b>		

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

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