

# ABS DATASHEET

Physical Properties	Test Method	Unit	Value
<b>Specific Gravity</b>	<b>ISO 1183</b>	<b>g/cm<sup>3</sup></b>	<b>1,04</b>
<b>Water Absorption</b>	<b>ISO 62</b>	<b>%</b>	<b>0,4</b>
<b>Humidity Absorption</b>	<b>ISO 62</b>	<b>%</b>	<b>0,1</b>
<b>Maximum Permissible Service Temperatur</b>	<b>UL746B</b>	<b>°C</b>	<b>70</b>

Mechanical Properties	Test Method	Unit	Value
<b>Tensile Strength at Yield</b>	<b>ISO 527</b>	<b>MPa</b>	<b>37</b>
<b>Elongation at Yield</b>	<b>ISO 527</b>	<b>%</b>	<b>7</b>
<b>Tensile Strength at Break</b>	<b>ISO 527</b>	<b>MPa</b>	<b>33</b>
<b>Elongation at Break</b>	<b>ISO 527</b>	<b>%</b>	<b>8</b>
<b>Impact Strength</b>	<b>ISO 179</b>	<b>kJ/m<sup>2</sup></b>	<b>333</b>
<b>Notch Impact Strength</b>	<b>ISO 179</b>	<b>kJ/m<sup>2</sup></b>	<b>37</b>
<b>Ball Indentation Hardness / Rockwell</b>	<b>ISO 2039</b>	<b>MPa</b>	<b>73 / R 105</b>
<b>Shore Hardness</b>	<b>ISO 868</b>	<b>Scale D</b>	<b>70</b>
<b>Flexural Strength</b>	<b>ISO 178</b>	<b>MPa</b>	<b>67</b>
<b>Tensile Modulus</b>	<b>ISO 527</b>	<b>MPa</b>	<b>2210</b>

Thermal Properties	Test Method	Unit	Value
<b>Vicat Softening Temperature (VST/B/50)</b>	<b>ISO 306</b>	<b>°C</b>	<b>103</b>
<b>(VST/A/50)</b>	<b>ISO 306</b>	<b>°C</b>	<b>-</b>
<b>Heat Deflection Temperature (HDT/B)</b>	<b>ISO 75</b>	<b>°C</b>	<b>100</b>
<b>(HDT/A)</b>	<b>ISO 75</b>	<b>°C</b>	<b>88</b>
<b>Coefficient of Linear Thermal Expansion</b>	<b>ISO 11359</b>	<b>K<sup>-1</sup>*10<sup>-4</sup></b>	<b>0,8</b>
<b>Thermal Conductivity at 20 °C</b>	<b>ISO 22007-4</b>	<b>W/(m*K)</b>	<b>-</b>
<b>Glass Transition Temperature</b>	<b>ISO 3146</b>	<b>°C</b>	<b>145</b>
<b>Melt Temperature</b>	<b>ISO 3146</b>	<b>°C</b>	<b>145</b>

Electrical Properties	Test Method	Unit	Value
<b>Volume Resistivity</b>	<b>IEC 60093</b>	<b>Ω*cm</b>	<b>-</b>
<b>Surface Resistivity</b>	<b>IEC 60093</b>	<b>Ω</b>	<b>≥ 10<sup>13</sup></b>
<b>Dielectric Constant at 1 MHz</b>	<b>IEC 60250</b>	<b>-</b>	<b>-</b>
<b>Dielectric loss factor at 1 MHz</b>	<b>IEC 60250</b>	<b>-</b>	<b>-</b>
<b>Dielectric Strength</b>	<b>IEC 60243-1</b>	<b>kV/mm</b>	<b>-</b>
<b>Tracking Resistance</b>	<b>IEC 60112</b>	<b>V</b>	<b>-</b>

Additional Data	Test Method	Unit	Value
<b>Bondability</b>	<b>-</b>	<b>-</b>	<b>+</b>
<b>Physiological Safety</b>	<b>EE</b>	<b>-</b>	<b>-</b>
	<b>C</b>	<b>-</b>	<b>+</b>
	<b>FD</b>	<b>-</b>	<b>-</b>
	<b>A</b>	<b>-</b>	<b>-</b>
<b>Flammability</b>	<b>UL 94</b>	<b>-</b>	<b>HB</b>
<b>Limiting Oxygen Index (LOI)</b>	<b>ASTM D2863</b>	<b>%</b>	<b>20</b>

These values have been generated by qualified parties and contain our current experience. They can therefore be described as applicable to a high degree, without being mandatory for every case of application. The values given are average values which are verified by systematic tests. The characteristic values correspond to the specifications of DIN EN 15860 and may vary on the finished product. These are guide values and not guaranteed properties which are only intended to provide information about our products and to assist in the selection of materials. In case of missing measured values, raw material data or literature values were used, if available. Subject to change.