

**DAIAMID® L1833**

PA12

Daicel-Evonik Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	<b>9</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>230</b>	°C	-
Load	<b>2.16</b>	kg	-
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>4800</b>	MPa	ISO 527
Yield stress	<b>95</b>	MPa	ISO 527
Yield strain	<b>5</b>	%	ISO 527
Stress at break	<b>95</b>	MPa	ISO 527
Strain at break	<b>6</b>	%	ISO 527
Charpy impact strength, +23°C	<b>70</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>75</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>23</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>17</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>178</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>160</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>175</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>70</b>	E-6/K	ISO 11359-1/-2
<b>Electrical properties</b>			
<b>ISO Data</b>			
Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
Electric strength	<b>41</b>	kV/mm	IEC 60243-1
<b>Other properties</b>			
Water absorption	<b>1.2</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.6</b>	%	Sim. to ISO 62
Density	<b>1170</b>	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Special Characteristics**

Heat stabilized or stable to heat

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America