

**Amilan® U121**

PA6

Toray Industries, Inc.

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Strength	<b>60 / 35</b>	MPa	ISO 527
Strain at break	<b>50 / 50</b>	%	ISO 527
Flexural modulus, 23°C	<b>2000 / 800</b>	MPa	ISO 178
Flexural modulus	<b>2500 / 2500</b>	MPa	ISO 178
Flexural modulus temperature	<b>-40</b>	°C	-
Charpy notched impact strength, +23°C	<b>16.5 / 65.6</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Rockwell hardness	<b>R 114</b>	-	ISO 2039-2

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>225 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>57 / *</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>160 / *</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>95 / *</b>	E-6/K	ISO 11359-1/-2

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>8 / *</b>	%	Sim. to ISO 62
Density	<b>1090 / -</b>	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Special Characteristics**

High impact or impact modified

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa