

Amilan® U141

PA6

Toray Industries, Inc.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Strength	50 / 32	MPa	ISO 527
Strain at break	50 / 50	%	ISO 527
Flexural modulus, 23°C	1500 / 700	MPa	ISO 178
Flexural modulus	2300 / 2300	MPa	ISO 178
Flexural modulus temperature	-40	°C	-
Charpy notched impact strength, +23°C	105 / 130	kJ/m ²	ISO 179/1eA
Rockwell hardness	R 112	-	ISO 2039-2

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	225 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	55 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	155 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	75 / *	E-6/K	ISO 11359-1/-2

Other properties	dry / cond	Unit	Test Standard
Water absorption	6 / *	%	Sim. to ISO 62
Density	1060 / -	kg/m ³	ISO 1183

Characteristics**Special Characteristics**

High impact or impact modified

Regional Availability

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