

OMNILON® PA6 U GR40 - PA6

Physical properties	Value	Unit	Test Standard
Density	1450	kg/m³	ISO 1183

Mechanical properties	Value	Unit	Test Standard
Tensile stress at yield, 23°C	159	MPa	ASTM D 638
Tensile strain at break, 23°C	3	%	ASTM D 638
Flexural modulus, 23°C	10300	MPa	ASTM D 790
Flexural stress, 23°C	231	MPa	ASTM D 790
Izod impact notched, 23°C	96	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	210	°C	ISO 75-1, -2
DTUL at 0.45 MPa	218	°C	ISO 75-1, -2

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Necessary low maximum residual moisture content	0.15	%	-
Drying time	4 - 8	h	-
Drying temperature	80 - 90	°C	-
Temperature	Value	Unit	Test Standard
Zone1 temperature	220 - 230	°C	-
Zone2 temperature	225 - 235	°C	-
Zone3 temperature	235 - 245	°C	-
Zone4 temperature	245 - 255	°C	-
Nozzle temperature	255 - 270	°C	-
Melt temperature	250 - 270	°C	-
Mold temperature	60 - 80	°C	-
Hot runner temperature	255 - 270	°C	-