

OMNILON® PA6 U GMR40 HS UV BK2000 - PA6

Physical properties	Value	Unit	Test Standard
Density	1480	kg/m ³	ISO 1183
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	10000	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	110	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	2	%	ISO 527-2/1A
Flexural modulus, 23°C	9000	MPa	ISO 178
Flexural strength, 23°C	170	MPa	ISO 178
Charpy impact strength, 23°C	43	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	5.3	kJ/m ²	ISO 179/1eA

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	-