

OMNILON® PA6 U IM20 UV BK20509 - PA6

Experimental Grade. Please contact your Celanese representative for further information.

Physical properties	Value	Unit	Test Standard
Density	1070	kg/m³	ISO 1183

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	1850	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	44	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	4.2	%	ISO 527-2/1A
Tensile stress at break, 50mm/min	40	MPa	ISO 527-2/1A
Tensile strain at break, 50mm/min	>10	%	ISO 527-2/1A
Flexural modulus, 23°C	1700	MPa	ISO 178
Flexural strength, 23°C	53	MPa	ISO 178
Charpy impact strength, 23°C	NB	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	77	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	52	°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	-