

# Oilon®

PA6C (Cast Polyamide 6 + Oil)

Colour: Green

Density: 1.140g/cm<sup>3</sup>

# DirectPlastics

...not just a quicker delivery!

## Material Data Sheet

Mechanical Properties	Parameter	Value	Unit	DIN/EN/ISO
Modulus of elasticity	50mm/min	3800	MPa	527-1/2
Tensile strength	50mm/min	75	MPa	527-1/2
Elongation at break	50mm/min	>25	%	527-1/2
Flexural strength	1.5mm/min 10N	95	MPa	178
Modulus of elasticity (flexural test)	1.5mm/min 10N	3000	MPa	178
Compression Strength	5mm/min 10N	95	MPa	604
Compression modulus	1mm/min 10N	2400	MPa	604
Impact strength (Izod)	Notched	5.80	kJ/m <sup>2</sup>	180
Hardness (shore D)	-	83	-	-

Thermal Properties	Parameter	Value	Unit	DIN/EN/ISO
Melting temperature	-	220	°C	-
Service temperature	Short term	1700	°C	-
Service temperature	Long term	110	°C	-
Thermal expansion (CLTE)	23-55°C, Long	8 x 10 <sup>-5</sup>	°C <sup>-1</sup>	11359-2
Thermal conductivity	-	-	W/m.°C	8301

Electrical Properties	Parameter	Value	Unit	DIN/IEC
Surface resistance ROA	-	1 x 10 <sup>12</sup>	Ohm	60093
Volume resistivity	-	1 x 10 <sup>13</sup>	Ohm.m	60093
Dielectric constant	-	3.7	1MHz	60250
Dissipation strength	-	25	kV/mm	60243-1
Comparative tracking index	-	600	CTI	60112

Other Properties	Parameter	Value	Unit	DIN/EN/ISO/IEC
Water absorption saturation	Immersion 23°C	4	%	62
Water absorption 24 hours	Immersion 23°C	-	%	62 (modified)
Resistance to weathering	-	-	-	-
Flammability (UL94)	-	HB	-	60695-11-10



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The following information corresponds with our current knowledge and indicates our products and possible applications. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. Existing commercial patents must be observed. A definitive quality guarantee is given in our general conditions of sales.

Unless otherwise stated, these values represent averages taken from injection moulding samples.

We reserve the right of technical alterations.