

# CELSTRAN® PA66-SF50-02 AF3005

## CELSTRAN® Long Fibre

The Celstran PA66-SF50-02 AF3001 Natural is a 50% by weight stainless steel fiber concentrate. This product is intended to be used at levels from 6% to 40% in combination with neat or filled PA66 to achieve the desired level of electrostatic dissipation (ESD) and electromagnetic interference (EMI)/ radio frequency interference (RFI) shielding. The resulting formulation will yield stainless steel levels of 3% to 20%.

'Long Stainless Fiber' materials have a significant advantage over short stainless fiber filled plastics. Conductivity properties increase by nearly 100 times when comparing to similar loadings.

### Product information

Resin Identification	PA66-LMEF(x)5 0	ISO 1043
Part Marking Code	>PA66-LMEF(x)50<	ISO 11469

### Thermal properties

Melting temperature, 10 °C/min	260 °C	ISO 11357-1/-3
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### Physical/Other properties

Density	1990 kg/m <sup>3</sup>	ISO 1183
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### Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	285 °C
Min. melt temperature	295 °C
Max. melt temperature	305 °C
Screw tangential speed	≤0.15 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C
Hold pressure range	50 - 100 MPa

### Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Increased electrical conductivity, Static dissipative, Heat stabilised or stable to heat