Celanese
The chemistry inside innovation™

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)50	ISO 1043
Part Marking Code	>PA66-LMEF(x)50<	ISO 11469

Thermal properties

Melting temperature, 10 °C/min	260	°C	ISO 11357-1/-3

Physical/Other properties

Density	1990	kg/m³	ISO 1183

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

Revised: 2024-05-24 Source: Celanese Materials Database