

# INELEC PA66CF30IM

Polyamide 66

Infinity LTL Engineered Compounds

Message:

Inelec carbon fiber, carbon powder, stainless steel fiber, nickel coated carbon fiber and antistatic alloy electrically active compounds

Offered in all Infinity base resins

Provide electrostatic discharge and electrical conductivity. EMI and RFI shielding compounds available

| General Information    |                                   |  |  |
|------------------------|-----------------------------------|--|--|
| Filler / Reinforcement | Carbon Fiber,30% Filler by Weight |  |  |
| Additive               | Impact Modifier                   |  |  |
| Features               | Electrically Conductive           |  |  |
|                        | Impact Modified                   |  |  |

| Physical                 | Nominal Value | Unit               | Test Method |
|--------------------------|---------------|--------------------|-------------|
| Specific Gravity         | 1.21          | g/cm <sup>3</sup>  | ASTM D792   |
| Specific Volume          | 0.827         | cm <sup>3</sup> /g |             |
| Molding Shrinkage - Flow | 0.10 to 0.30  | %                  | ASTM D955   |
| Water Absorption (24 hr) | 0.70          | %                  | ASTM D570   |

| Mechanical                 | Nominal Value | Unit | Test Method |
|----------------------------|---------------|------|-------------|
| Tensile Strength (Yield)   | 172           | MPa  | ASTM D638   |
| Tensile Elongation (Yield) | 2.0 to 3.0    | %    | ASTM D638   |
| Flexural Modulus           | 14500         | MPa  | ASTM D790   |
| Flexural Strength          | 276           | MPa  | ASTM D790   |

| Impact                          | Nominal Value | Unit | Test Method |
|---------------------------------|---------------|------|-------------|
| Notched Izod Impact (3.18 mm)   | 160           | J/m  | ASTM D256   |
| Unnotched Izod Impact (3.18 mm) | 1000          | J/m  | ASTM D256   |

| Thermal   | Nominal Value | Unit     | Test Method |
|---|---------------|----------|-------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 243           | °C       | ASTM D648   |
| CLTE - Flow   | 2.2E-5        | cm/cm/°C | ASTM D696   |

| Electrical          | Nominal Value    | Unit | Test Method |
|---------------------|------------------|------|-------------|
| Surface Resistivity | 1.0E+2 to 1.0E+4 | ohms | ASTM D257   |

| Flammability           | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
| Flame Rating (1.59 mm) | HB            |      | UL 94       |

| Injection              | Nominal Value | Unit |  |
|------------------------|---------------|------|--|
| Drying Temperature     | 79.4          | °C   |  |
| Drying Time            | 4.0           | hr   |  |
| Processing (Melt) Temp | 260 to 302    | °C   |  |
| Mold Temperature       | 93.3          | °C   |  |

|               |                |     |
|---------------|----------------|-----|
| Back Pressure | 0.345 to 0.689 | MPa |
| Screw Speed   | 40 to 70       | rpm |
| Vent Depth    | 0.013 to 0.025 | mm  |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

