



TRIVALENCE

TriLEC PA661CF20E

Nylon 66(PA) Carbon Fiber Reinforced

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General Information

Product Description

PA66, Carbon Fiber Reinforced, Recylate Based

FEATURES

- 50% of the strength of steel at 15% of the weight
- Conductive
- 1.5 - 1.8x tensile improvement over LGF PP
- 20% Carbon Fiber Reinforced

ADDITIONAL FORMULAS

- Additional UV "U"

COLOR

- Black
- Opaque



General

Typical Applications

-Transportation, defense, packaging, conveyment, aerospace, casters, business equipment.

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Latin America

ASTM / ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|---------------------|
| Density | 1.28 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.2mm) | 0.7 to 1.8 | % | TVT Internal |
| Outdoor Suitability (QUV) ("U" Grades) | Pass | | TVT Internal |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength, yld | 190 | MPa | ASTM D638 |
| Tensile Elongation, yld | >1.8 | % | ASTM D638 |
| Flexural Modulus | 15900 | MPa | ASTM D790 |
| Notched Izod Impact (73F) | 9 | kJ/m ² | ASTM D256 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1E2-1E5 | ohm/sq | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| 0.06 in | HB | | UL94 - TVT Internal |

Recommended Processing Guidance

| | |
|-----------------------------|---------------|
| Drying Temperature | 160 to 180 °F |
| Drying Time | 2 to 4 Hours |
| Suggested Max Moisture | 0.02 % |
| Processing Melt Temperature | 240 to 280 °C |

¹ Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.