

# FS3150CF

Advanced Carbon Fiber Filled PA12 Material combines strength and light-weight

## Key Features:

- > Excellent strength and rigidity
- > Enhanced stiffness
- > High resistance to thermal deformation
- > Great anti-static electricity feature

## Example Applications:

- > Ideal for parts production with strict requirement of weight reduction
- > Industrial applications in aerospace & aviation industry

### [ Technical Data ]

|                              |   |                        |
|------------------------------|---|------------------------|
| <b>General Properties</b>    | <b>Bulk Density</b>   | 0.52 g/cm <sup>3</sup> |
|                              | <b>Part Density</b>   | 1.07 g/cm <sup>3</sup> |
|                              | <b>Color</b>  | Black                  |
| <b>Thermal Properties</b>    | <b>Melting Point (10°C/min)</b> <small>ISO 11357-1:2020</small>         | 185.5 °C               |
|                              | <b>Heat Deflection Temp(HDT) @1.8 MPa</b> <small>ISO 78-1:2020</small>  | 152 °C                 |
|                              | <b>Heat Deflection Temp(HDT) @0.45 MPa</b> <small>ISO 78-1:2020</small> | 169 °C                 |
| <b>Mechanical Properties</b> | <b>Tensile Strength</b> <small>ISO 527-1:2019</small>                   | 56 MPa                 |
|                              | <b>Tensile Modulus</b> <small>ISO 527-1:2019</small>                    | 3350 MPa               |
|                              | <b>Elongation at Break</b> <small>ISO 527-1:2018</small>                | 6.9%                   |
|                              | <b>Flexural Strength</b> <small>ISO 178:2019</small>                    | 87 MPa                 |
|                              | <b>Flexural Modulus</b> <small>ISO 178:2019</small>                     | 2820 MPa               |
|                              | <b>Izod Impact Strength (notched)</b> <small>ISO 180:2019</small>       | 7.2 KJ/m <sup>2</sup>  |
|                              | <b>Izod Impact Strength (unnotched)</b> <small>ISO 180:2019</small>     | 14 KJ/m <sup>2</sup>   |

Disclaimer: Many factors may affect the performance characteristics of products. We recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. Farsoon makes no warranties of any type, express or implied, including but not limited to, the warranties of merchantability or fitness for a particular use. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. Farsoon reserves the right to change the technical data without notice. Farsoon®, Buildstar®, Makestar® are registered trademarks of Farsoon Technologies. Last Change: 2022-01-29



Motorcycle Fuel Tank  
System: SS403P

[www.farsoon.com](http://www.farsoon.com)