

**RAM3D ABS CF10 BK 9001**

ABS-CF10

Polyram

**Product Texts**

RAM3D ABS CF10 NT 9001 is Natural, 10% Carbon Fiber Reinforced ABS for 3D Printing. The mechanical properties were derived from test bars produced through injection molding. The resultant properties are determined by the printing and process conditions.

**Processing/Physical Characteristics**

|                             | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|-----------------------------|--------------|-------------|----------------------|
| <b>ISO Data</b>             |              |             |                      |
| Melt flow index, MFI        | <b>19</b>    | g/10min     | ISO 1133             |
| Temperature                 | <b>220</b>   | °C          | -                    |
| Load                        | <b>10</b>    | kg          | -                    |
| Molding shrinkage, parallel | <b>0.1</b>   | %           | ISO 294-4, 2577      |
| Molding shrinkage, normal   | <b>0.1</b>   | %           | ISO 294-4, 2577      |

**Mechanical properties**

|                                       | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|---------------------------------------|--------------|-------------------|----------------------|
| <b>ISO Data</b>                       |              |                   |                      |
| Tensile Modulus                       | <b>9800</b>  | MPa               | ISO 527              |
| Tensile Strength                      | <b>73</b>    | MPa               | ISO 527              |
| Strain at break                       | <b>1</b>     | %                 | ISO 527              |
| Charpy impact strength, +23°C         | <b>13</b>    | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy notched impact strength, +23°C | <b>6</b>     | kJ/m <sup>2</sup> | ISO 179/1eA          |

**Other properties**

|         | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|---------|--------------|-------------------|----------------------|
| Density | <b>1080</b>  | kg/m <sup>3</sup> | ISO 1183             |

**Characteristics****Processing**

Additive Manufacturing

**Delivery form**

Natural Color

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa