



# Data of BOLIAMID 6-CF15

## BOLIAMID 6-CF15: Nylon Based Structural Compound

### Chemical Designation

PA 6 (Polyamide 6)

### Colour

black opaque

### Density

1.19 g/cm<sup>3</sup>

### Fillers

carbon fibers 15%

### Main features

very high physical stiffness

good wear properties

good heat deflection temperature

Ductility

good weldable and bondable

### Industrial/Application Examples

- Automotive
- Aerospace
- Electrical
- Medical
- Energy
- Industrial

## Material properties

Mechanical properties	Units	Value	Norm
Tensile strength	MPa	152	GB/T 1040-2018
Elongation at Break	%	3.6	GB/T 1040-2018
Flexural Strength	MPa	210	GB/T 9341-2008
Flexural Modulus	Mpa	9815	GB/T 9341-2008
Izod impact strengt (Unnotched)	kJ/m <sup>2</sup>	60	GB/T 1843-2008
Izod impact strength (V-notched)	kJ/m <sup>2</sup>	12.0	GB/T 1843-2008

### Thermal properties

Heat Deflection Temp (T <sub>r</sub> 1.82)	°C	182	
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### Other properties

Density	g/cm <sup>3</sup>	1.19	GB/T 1033-2008
Hardness	HD	-	GB/T 2411-2008/
Melt Mass Flow Rate	g/10 min	9.6	GB/T 3682-2000
Surface Resistance	Ω	10 <sup>6</sup> -10 <sup>8</sup>	ASTM D-257
Water Content	%	-	GB/T5009.3-2003
Fiber & other content	%	15.3	GB/T 9345-2008

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