

RAM3D PA12 CF30 BK 9001

PA12-CF30

Polyram

Product Texts

RAM3D PA12 CF30 NT 9001 is Natural, 30% Carbon Fiber Reinforced, Electrical Conductive POLYAMIDE 12 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	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	26	cm ³ /10min	ISO 1133
Temperature	275	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15000	MPa	ISO 527
Tensile Strength	138	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Charpy impact strength, +23°C	58	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	16	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	148	°C	ISO 11357-1/-3

Other properties	Value	Unit	Test Standard
Density	1160	kg/m ³	ISO 1183

Characteristics**Processing**

Additive Manufacturing

Special Characteristics

Increased electrical conductivity

Delivery form

Natural Color

Regional Availability

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