



PRODUCT INFORMATION

RADILON ADLINE CS CF10 HP BK

PROVISIONAL

DESCRIPTION

PA6/66 copolymer 10% carbon fibre reinforced for 3D Printing Fused Deposition Modelling.

Suitable for parts requiring stiffness, high dimensional stability and very reduced shrinkage. The material offers good surface aspect and easy processability.

ISO 1043: PA6/66-CF10

THE CHARACTERISTICS SHOWN HERE ARE PROVISIONAL AND REFLECT THE AVERAGE VALUES OF PROPERTIES MEASURED OVER A LIMITED NUMBER OF PRODUCTION CAMPAIGNS

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

MATERIAL HANDLING AND PROCESSING

The material is available in granules or in filament, and is delivered in moisture-proof, 6 month shelf-life packaging ready for processing. Availability of 1.75 mm and 2.85 mm diameter 3D printer filaments. It is advisable to print continuously up to a maximum of 3 days, after that period proceed with the proper desiccation procedure for the material. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80°C, dew point -20°C or below, time 2-4 h or more.

Recommended 3D-Print processing parameters:

Nozzle TemperatureBed TemperatureAdhesion promoterPrint Speed250°-280°C70-100°CMaqiqoo qlue30-40 mm/s

Please note: Parameters are dependent on printer used. Radici tests were performed on a Ultimaker S5 printer

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet ROHS compliant 2011/65/EU and following amendments

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TECHNICAL DATA SHEET

RADILON ADLINE CS CF10 HP BK

PROPERTY		STANDARD	UNIT	VALUE DAM*	Cond**
PHYSICAL PROPERTIES					
Density Water Absorption, immersion at 23°C Moisture Absorption 23°C - 50%RH	2mm 2mm	ISO 1183 ISO 62 ISO 62	kg/m³ % %	1160 9 2,6	
MECHANICAL PROPERTIES					
Tensile Modulus Stress at Yield Yield Strain Stress at Break Strain at Break Flexural Modulus Flexural Strength Charpy Impact Strength	1mm/min 50mm/min 5mm/min 5mm/min 2mm/min 2mm/min +23°C	ISO 527-2/1A ISO 527-2/1A ISO 527-2/1A ISO 527-2/1A ISO 527-2/1A ISO 178 ISO 179/1eU	MPa MPa % MPa % MPa MPa kJ/m²	3550 ^[1] 50 3 45 25 3500 ^[2] 60 60 ^[3]	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	195	

^{*:} DAM = Dry As Moulded state according to ISO 16396-2 **: Cond = Conditioned state similar to ISO 1110 1: Tensile properties measured on 3D printed XY / flat specimen with a filling print path at +/- 45°

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^{2:} Flexural properties measured on 3D printed XY / flat specimen with a filling print path at +/- 45°

^{3:} Impact properties measured on 3D printed XY / flat specimen with a filling print path at +/- 45°