

Radilon® ADLINE CS CF10 HP BK

Radici Group High Performance Polymers - *Polyamide 66/6 Copolymer*

General Information

Product Description

PA6/66 copolymer 10% carbon fibre reinforced for 3D printing Fused deposition Modeling.

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

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight		
Features	• Copolymer • Good Processability	• Good Stiffness • Good Surface Finish	• High Dimensional Stability • Low Shrinkage
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Processing Method	• 3D Printing, Fused Deposition Modeling (FDM)		
Resin ID (ISO 1043)	• PA6/66-CF-10		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	9.0	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	2.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	558000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	943	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	18	%	ISO 527-2/1A/50
Flexural Modulus ²	508000	psi	ISO 178
Flexural Stress ²	8700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (73°F)	29	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ³	383	°F	ISO 11357-3

Additional Information

Nozzle Temperature: 250-280°C
 Bed Temperature: 70-100°C
 Adhesion promoter: Magigoo glue
 Print Speed: 30-40 mm/s

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 10°C/min

