Technical Data Sheet

Product name: Centaur PP

Centaur PP is a lightweight and high-performance Polypropylene (PP) filament, which is engineered to have outstanding mechanical properties and a superb interlayer adhesion. Centaur PP combines a unique set of material properties into a 3D printer filament, which makes Centaur PP an extremely diverse and multi-functional material suitable for numerous applications ranging from 3D printing dishwasher proof and microwave safe household articles to functional engineering objects with great endurance properties.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	0.9 g/cc	ASTM D1505	-
Melt flow rate	8 g/10min	ISO 1133	260° C/5Kg
Water absorption	-	-	-
Moisture absorption	-	-	-
Mechanical			
Impact strength	-	-	-
Tensile strength	12Mpa	ASTM D638	@ Yield 2.0 in/min
Tensile modulus	-	-	-
Elongation at break	>600%%	ASTM D638	@ Break 2.0 in/min
Flexural strength	-	-	-
Flexural modulus	402 Mpa	ASTM D790	1.27mm/min (0.05 inch/min)
Hardness	50D	ASTM D2240	Shore D Hardness
Thermal			
Print temperature	± 220 - 240° C	-	-
Melting termperature	± 205 ± 15° C	-	-
Viscat softening temp.	± 103° C	-	-
Optical			
Haze	-	-	-
Transmittance	-	-	-
Gloss	-	-	-

Product details, certifications and compliance	
HS Code	39169090
REACH compliant	Yes
RoHS certified	Yes

Diameter	Tolerance	Roundness
1.75mm	± 0.05mm	≥ 95%
2.85mm	± 0.10mm	≥ 95%