Technical Data Sheet

Product name: Volcano PLA

Version: v3

Volcano PLA is an industrial grade PLA which is engineered for professional applications that require high printing speeds and improved heat resistance and mechanical properties similar to ABS.
Volcano PLA offers the same mechanical and thermal properties - after annealing - as most ABS filaments, but with the biodegradability and ease of printing of PLA. Volcano PLA combines a high heat resistance with high printing speeds and high impact resistance into a PLA-based filament engineered for industrial applications.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.27 g/cc	ASTM D792	-
Melt flow rate	6 g/10 min*	ISO 1133	210° C/2.16Kg
Mechanical			
Impact strength	22 KJ/m²	ISO 179	Charpy Notched @23° C (73° F)
Tensile strength	39 Mpa	ISO 527	-
Tensile modulus	3900 Mpa	ISO 527	-
Elongation at break	58%	ISO 527	-
Flexural strength	-	-	-
Flexural modulus	-	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 220 - 255° C	-	-
Melting termperature	± 190 - 220° C	-	-
Viscat softening temp.	≥ 95°C After annealing	ISO 75	-
Optical			
Haze	-	-	-
Transmittance	-	-	-
Gloss	-	-	-

** Higher melt flow rate at a higher printing temperature (240°C ±10°C), which increases the printing speed capabilities.*

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%

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