Technical Data Sheet

Product name: ApolloX™

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ApolloX™ is a professional high strength & performance engineering filament based on a uniquely industrial-grade modified ASA (Acrylonitrile Styrene Acrylate) compound. ApolloX™ has been modified to have great thermal stability & improved filament flow behavior and has zero-warping and flawless first- and interlayer adhesion allowing you to 3D print objects with an almost injection molding precision.
ApolloX™ is UV & weather resistant ensuring great color stability – combined with high strength and heat resistant properties – which makes ApolloX™ a perfect engineering filament for outdoor and automotive applications.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.11 g/cc	ISO 1183	-
Melt flow rate	45 g/10min	ISO 1133	260° C/5Kg
Water absorption	-	-	-
Moisture absorption	-	-	-
Mechanical			
Impact strength	18 KJ/m²	ISO 179	Charpy Notched @23° C (73° F)
Tensile strength	47,5 Mpa	ISO 527	@Yield 50mm/min (2 inch/min)
Tensile modulus	2020 Mpa	ISO 527	1mm/min
Elongation at break	15%	ISO 527	@ Break 50mm/min (2 inch/min)
Flexural strength	-	-	-
Flexural modulus	-	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 235 - 255° C	-	-
Melting termperature	± 230 ± 10° C	ISO 294	-
Viscat softening temp.	± 98° C	ISO 306	VST/A/50 (50° C/h, 10N)
Optical			
Haze	-	-	-
Transmittance	-	-	-
Gloss	-	-	-

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

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

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