

# Technical Data Sheet



**Product name:** ApolloX™

**Version:** v3

ApolloX is a professional high-performance engineering filament, which is based on a uniquely industrial-grade modified ASA (Acrylonitrile Styrene Acrylate) compound. ApolloX has been modified to have great thermal stability, improved filament flowing behavior, zero-warping and flawless first- and interlayer adhesion allowing you to 3D print objects with an almost injection-molded precision. ApolloX is UV and weather resistant and by that 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
<b>Physical</b>			
Specific gravity	1.11 g/cc	ISO 1183	-
Melt flow rate	45 g/10min	ISO 1133	260° C/5Kg
Water absorption	-	-	-
Moisture absorption	-	-	-
<b>Mechanical</b>			
Impact strength	18 KJ/m <sup>2</sup>	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	-	-	-
<b>Thermal</b>			
Print temperature	± 235 - 255° C	-	-
Melting temperature	± 230 ± 10° C	ISO 294	-
Viscat softening temp.	± 98° C	ISO 306	VST/A/50 (50° C/h, 10N)
<b>Optical</b>			
Haze	-	-	-
Transmittance	-	-	-
Gloss	-	-	-

Product details, certifications and compliance	Diameter	Tolerance	Roundness
HS Code	39169090	1.75mm ± 0.05mm	≥ 95%
REACH compliant	Yes	2.85mm ± 0.10mm	≥ 95%
RoHS certified	Yes		

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