Technical Data Sheet



Product name: ApolloX[™]

Date of issue: 22 April 2016 Version: vl

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.

ApolloXTM is UV & weather resistant ensuring great color stability – combined with high strength and heat resistant properties – which makes ApolloXTM 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/m ²	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	lmm/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	-	-	<u> </u>	

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			
FDA compliant	Yes			

Formfutura VOF	CoC: 55502105	Tel: +31 (0)85 002 0881
Groenestraat 215	VAT: NL851741083B01	Email: info@formfutura.com
6531 HH Nijmegen	EORI: NL851741083	Website: www.formfutura.com
The Netherlands		

All information supplied by or on behalf of Formfutura in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but Formfutura assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the forementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications.