Technical Data Sheet



Product name: Premium ABS

Date of issue: 09 April 2015 Version: v2

Premium ABS is a no-nonsense, very impact resistant and high-end ABS (Acrylonitrile Butadiene Styrene) type of 3D printer filament.

Premium ABS is slightly modified to assure a great thermal stability and flowing behaviour, which is essential for 3D printing. Premium ABS might be our entry-level ABS filament, but still it outperforms many other ABS type of 3D printer filaments by far when it comes to printer friendliness and reduced warping.

Properties	Typical value	Test Method	Test condition	
Physical				
Specific gravity	1.03 g/cc	ISO 1183	-	
Melt flow rate	5.5 cm ³ /10min	ISO 1133	220° C/10Kg	
Water absorption	1.04%	ISO 62	Saturated at 23° C	
Moisture absorption	0.23%	ISO62	Equilibrium 23° C/50% RH	
Mechanical				
Impact strength	29 KJ/m²	ISO 180/A	Izod Notched @23° C (73° F)	
Tensile strength	36 Mpa	ISO 527	Stress @ Yield 23° C	
Tensile modulus	1860 Mpa	ISO 527	-	
Elongation at break	9%	ISO 527	Nominal Strean at Break, 23° C	
Flexural strength	± 65.7 Mpa	-	-	
Flexural modulus	± 2148 Mpa	-	-	
Hardness	71 Mpa	ISO 2039-1	Ball Indentation Hardness	
Thermal				
Print temperature	± 220 - 270° C	-	-	
Melting termperature	± 145 ± 10° C	ISO 294	-	
Viscat softening temp.	± 92° C	ISO 306	VST/A/50 (50° C/h, 10N)	
Optical				
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			
FDA Approved	Yes			

Formfutura VOF	CoC: 55502105	Tel: +31 (0)20 893 4114
Haparandaweg 67 E5	VAT: NL851741083B01	Email: info@formfutura.com
1013 BD Amsterdam	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.