Technical Data Sheet



Product name: Premium ABS

Version:

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Premium ABS is our entry-level no-nonsense ABS filament, which is very impact resistant.

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

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 Strain at Break, 23° C	
Flexural strength	± 65.7 Mpa	-	-	
Flexural modulus	± 2148 Мра	-	-	
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	Diamete	er	er Tolerance
HS Code	39169090	1.75mm		± 0.05mm
REACH compliant	Yes	2.85mm		± 0.10mm
RoHS certified	Yes			

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