Technical Data Sheet



Website: www.formfutura.com

Product name: STYX-12

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6531 HH Nijmegen

The Netherlands

STYX-12 is an industrial PA12 grade nylon filament which combines excellent mechanical, chemical and hygroscopic properties with printability.

STYX-12 has a very low water absorption compared to other nylons and can be printed at relatively low temperatures. This combination of properties has resulted in high-performance and industrial-grade nylon which can be printed on a widerange of FFF/FDM 3D printers.

Properties	Typical value	Test Method	Test condition	
Physical				
Specific gravity	1.02 g/cc	ISO 1183 -		
Melt flow rate	- -	-	_	
Water absorption	_	-		
Moisture absorption	-	-	-	
Moisture absorption	-	-	-	
Mechanical				
Impact strength	14 KJ/m²	ISO 179	Charpy Notched @23° C (73° F)	
Tensile strength	60.0 Mpa	ISO 527 -1/-2	@Yield	
Tensile modulus	1400 Mpa	ISO 527	-	
Elongation at break	>150%	ISO 527 -1/-2	0	
Flexural strength	-	-	-	
Flexural modulus	_	-	-	
Hardness	81	ISO 868	Shore D Hardness	
Thermal				
Print temperature	± 240 - 270° C	-	-	
Melting termperature	± 250 ± 10° C	ISO 11357	-	
Viscat softening temp.	± 105° C	ISO 868	264psi annealed	
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 compliant	Yes				
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