Technical Data Sheet

Product name: EasyFil™ HIPS

Version: v3

EasyFil HIPS is a high-performance and easy to print High Impact PolyStyrene type of 3D printer filament, which is slightly softer and more flexible than average HIPS filaments and by that making it a very impact resistant HIPS filament.
EasyFil HIPS is very chemically inert and has outstanding characteristics with respect to hygiene, strength and heat resistance and it prints really smoothly and in fine detail with an extremely matte surface finish. EasyFil HIPS printed parts are very light-weight and can easily be glued together with a variety of adhesives.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.04 g/cc	ISO 1183	-
Melt flow rate	3.4 cm^3/10min	ISO 1133	220° C/5Kg
Water absorption	<0,1%	ISO 62	Saturated at 23° C
Moisture absorption	<0.1%	ISO62	Equilibrium 23° C/50% RH
Mechanical			
Impact strength	15 KJ/m^2	ISO 179	Charpy Notched @23° C (73° F)
Tensile strength	22 Mpa	ISO 527	Stress @ Yield 23° C
Tensile modulus	1550 Mpa	ISO 527	-
Elongation at break	50% (MD)	-	-
Flexural strength	± 51.2 Mpa	-	-
Flexural modulus	± 2126 Mpa	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 220 - 260° C	-	-
Melting termperature	± 180 - 260° C	ISO 294	-
Viscat softening temp.	± 89° C	ASTM D1525	B/2 (120° C/h, 50N)
Optical			
Haze	-	-	-
Transmittance	-	-	-
Gloss	-	-	-

Product details, certifications and compliance	
HS Code	39169090
REACH compliant	Yes
RoHS certified	Yes

Diameter	Tolerance	Roundness
1.75mm	± 0.05mm	≥ 95%
2.85mm	± 0.10mm	≥ 95%

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