

Technical Data Sheet



Product name: EasyFil™ HIPS

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Version: v2

EasyFil™ HIPS is a high-performance HIPS (High Impact PolyStyrene) type of 3D printer filament. Being slightly softer and more flexible than “normal” HIPS filaments - in combination with very limited warping, an excellent thermal stability and flowing behaviour - make EasyFil™ HIPS a truly “easy-to-print” 3D printer filament.

EasyFil™ HIPS is very chemically inert and has outstanding characteristics with respect to hygiene, strength and heat resistance and it prints really smoothly. EasyFil™ HIPS printed object will have a really beautiful matt coloured finish.

| 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 temperature | ± 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 | | 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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