

Technical Data Sheet



Product name: ABSpro™ - Flame Retardant

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ABSpro™ - Flame Retardant is a professional high-performance and halogen free self-extinguishing filament which is engineered to meet the UL 94 V-0 flammability standards. The mixture used for our ABSpro™ - Flame Retardant compound contains a high percentage of PolyCarbonate, ABS and added halogen-free flame retardant modifiers.

With ABSpro™ - Flame Retardant you can 3D print extremely strong and high gloss, self-extinguishing objects with a remarkable fine detail. ABSpro™ - Flame Retardant is extremely suitable for printing mechanical parts with exceptional endurance properties.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.18 g/cc	ISO 1183	-
Melt flow rate	50 g/min	ISO 1133	260° C/5Kg
Water absorption	-	-	-
Moisture absorption	-	-	-
Mechanical			
Impact strength	12,5 KJ/m ²	ISO 180/A	Izod Notched @23° C (73° F)
Tensile strength	65,1 Mpa	ISO 527	@Yield 50mm/min (2 inch/min)
Tensile modulus	2440 Mpa	ISO 527	1mm/min
Elongation at break	6,6%	ISO 527	@ Break 50mm/min (2 inch/min)
Flexural strength	-	-	-
Flexural modulus	-	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 240 - 260° C	-	-
Melting temperature	-	-	-
Viscat softening temp.	± 110° 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 compliant	No			

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