



Material DataSheet ABS PERFORMANCE

TDS Nr.: 5007

Rev. 2.0 24/03/2025

Main features

Low warpage

Impact resistance

Low water absorption

High-strength and stiffness parts with low creep

Physical properties

Physical properties	Test method	Specimen	Units	Typical value
Specific gravity	ISO 1183		g/cm ³	1.04
Water absorption	Sim. Alla ISO 62		%	1

Mechanical Properties at 23°C

Tensile strength

Tensile modulus	ISO 527-1/-2		MPa	2300
Impact strength	ISO 179/1eU		kJ/m ²	180
Impact strength notched	ISO 179/1eU		kJ/m ²	22
Flexurtal modulus				
Flexurtal strength	ISO 178		%	65

Flexural elongation F. max.

Elongation F. max.

Thermal properties

Heat distortion temperature	50°C/h 50N	ISO 306	°C	96
Continuous service temperature				

Electrical properties

Insulation resistance

Disclaimer

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SUGGESTED PRINT SETS (I)

Suggest print sets	Unit	Value	Test method
Extruder temp	C°	220-240	Internal
Plate temp	C°	90-110	Internal
Min. nozzle diameter	mm.	0,3	Internal
Fan	%	0 - 30	Internal
Print speed	mm/l°	60 - 90	Internal

ADDITIONAL INFORMATION

In general filaments made with ABS Performance can be processed on conventional 3D printer using FDM / FFF technology.

(I) Suggested print set merely represent a recommendation for general use . Every printer necessity a specific set , nozzle temp, bed temp, etc .

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