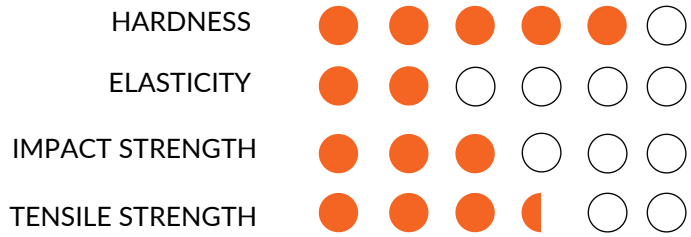
TECHNICAL DATA SHEET

PA-12

PA-12 - combines mechanical strength, flexibility and chemical resistance (oils, greases, gasoline), great impact resistance, flexibility and dimensional stability. Finish of this filament is quite smooth which gives it low friction properties (large sliding).



PHYSICAL PROPERTIES

	VALUE	UNIT	TEST METHOD
Density	1,02	g/cm^3	ISO 1183
Water Absorption	1,5	%	ISO 62

MECHANICAL PROPERTIES

	VALUE	UNIT	TEST METHOD
Tensile strength	45	MPa	ISO 527-2
Charpy impact strength 23°C	7	kJ/m2	ISO 179-1eA
Charpy impact strength 40°C	7	kJ/m2	ISO 179-1eA

THERMAL PROPERTIES

	VALUE	UNIT	TEST METHOD
Heat Deflection Temperature 0,45 MPa	110	°C	ISO 75-2
Heat Deflection Temperature 1,8 MPa	50	°C	ISO 75-2
VICAT Softening Temperature	138	°C	ISO 306B
Flammability class	HB	-	UL 94

ELECTRICAL PROPERTIES

	VALUE	UNIT	TEST METHOD
Resistivity	>1018	Ω/cm2	IEC 60093

RECOMMENDED PRINTING PARAMETERS

Nozzle temperature

240-260°C

Bed temperature

80-120°C

Heated chamber

50°C

Print Speed

30-80mm/s

OMNI3D