

# KODAK 3D Printing Filament

## NYLON 12 · Technical Data Sheet

### General Features

<b>Chemical Name</b> Polyamide 12	<b>Benefits</b> <ul style="list-style-type: none"><li>• Extremely tough with superior tensile strength, elongation at break &amp; impact strength, high fatigue endurance, and low friction coefficient</li><li>• Very low moisture absorption before and after printing</li><li>• Superior chemical and UV resistance</li><li>• High heat resistance</li></ul>	<b>Main Applications</b> Ideal for tough objects with living hinges (one or two layer walls are flexible), resistant to chemicals and practically unbreakable. Clips, hooks, housings, bearings, pulleys, gears, washers, bushings, jigs and fixtures, flanges.
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### Filament Characteristics

<b>Diameter</b>	Ø 1.75mm	Ø 2.85mm
<b>Meters per spool</b>	308.726m	116.402m
<b>Weight per meter</b>	2.43g	6.44g
<b>Tolerance</b>	±0.02mm	±0.03mm

### Material Properties

	Unit	Dry/Cond	Standard
<b>Yield Stress</b>	MPa	45/40	ISO 527 -1/-2
<b>Tensile Modulus</b>	MPa	1400/1100	ISO 527 -1/-2
<b>Stress at Break</b>	MPa	55/50	ISO 527 -1/-2
<b>Yield Strain</b>	%	5/12	ISO 527 -1/-2
<b>Charpy Notched Impact Strength (+23°C) ft-lb/in</b>	J/m	6/7	ISO 179/1eA
<b>Charpy Notched Impact Strength (-30°C) ft-lb/in</b>	J/m	7/6	ISO 179/1eA
<b>Melting Temperature (10°C/min)</b>	%	1.5/-	Sim. to ISO 62
<b>Humidity Absorption</b>	%	0.7/-	Sim. to ISO 62
<b>Water Absorption</b>	°C	178/-	ISO 11357 -1/-3

### Recommended printer settings

<b>Print temperature</b>	245±5°C
<b>Print bed temperature</b>	100° First/ Later
<b>Cooling fans</b>	Off
<b>Closed environment</b>	Required
<b>Adhesive</b>	Required

### Available Colours

Colour	Pantone Code
Natural	--

#### Disclaimer:

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