

PA 12 · Technical Data Sheet

General Features

Chemical Name Polyamide 12	Benefits <ul style="list-style-type: none"> • Good elongation at break, high tensile and impact strength • High fatigue endurance and low friction coefficient • Chemical, UV and heat resistance
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Filament Characteristics

Diameter	Ø 1.75mm
Meters per spool	823,04m
Weight per meter	2.43g
Tolerance	±0.02mm

Material Properties

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

Physical Properties

	Typical value	Standard
Melting Temperature (10°C/min)	178/- °C	Sim. to ISO 62
Humidity Absorption %	0.7/- %	Sim. to ISO 62
Water Absorption %	178/- °C	ISO 11357 -1/-3

Disclaimer:

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