

Tough PLA · Technical Data Sheet

General Features

Polylactic Acid

High tensile strength and impact resistance
Low shrinkage
Easy to print

Filament Characteristics

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

Material Properties

		XY Axis	YX Axis	ZX Axis	ASTM Method
Tensile Strength, psi	MPa	5.802(40)	4.641(32)	3.481(24)	D638
Tensile Modulus, kpsi	MPa	416(2,865)	355(2447)	359(2,477)	D638
Flexural Strength, psi	MPa	10.588(73)	7.106(49)	6.672(46)	D790
Flexural Modulus, kpsi	MPa	350(2,414)	287(1979)	341(2,352)	D790
Notchez Izod Impact (amorphus) ft-lb/in	J/m	2.99(160)	2.26(21)	2.04(109)	D256
Notchez Izod Impact (crystalline) ft-lb/in	J/M	4.37(233)	3.74(200)	1.19(64)	D256
Heat Distortion Temperature	°C	--	75-85	--	E2092

		3D870	ASTM Method
Specific Gravity	g/cc	1.22	D792
MFR g/10 min	g/min	9-15	D1238
Peak Melt Temperature	°C	165-180	D3418
Glass Transition Temperature	°C	55-60	D3418

Disclaimer:

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