

Nicosin Extrusion, Inc. 3D Printing Filament Properties

ABS Filament (Low Flow)

Properties	Test Method	Test Method	Unit	Nominal Value
Tensile Strength	ASTM D638	3mm, 6mm /min	Kg/cm ²	385
Tensile Elongation	ASTM D638	3mm, 6mm /min	%	30
Flexural Strength	ASTM D790	6mm, 2.8mm /min	Kg/cm ²	620
Flexural Modulus	ASTM D790	6mm, 2.8mm /min	Kg/cm ²	22000
Izod Impact Strength	ASTM D256 (Notched)	6mm, 23°C	Kg-cm/cm	32
		3mm, 23°C	Kg-cm/cm	41
Melt Flow Index	ASTM D1238	200°C, 5Kg	g/10 min	1.1
		220°C, 10Kg	g/10 min	13
Hardness	ASTM D785	-	R Scale	108
Specific Gravity	ASTM D792	23°C	-	1.03
Vicat Softening Temp.	ASTM D1525	3mm, 50°C/hr	°C	103
Heat Distortion Temp.	ASTM D648	annealed	°C	95
		unannealed	°C	85
Flammability	UL 94	-	-	1.6mm,HB

All Properties Are Tested Properties Of The Raw materials
Actual Properties Of Printed Items Should Be Tested By The Customer