PRODUCT DATA SHEET

V2.0

Panchroma BY polymaker

OVERVIEW

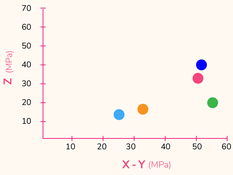
Panchroma™ is dedicated to expanding creative horizons through 3D printing. Committed to providing the broadest spectrum of colors, surface finishes, and filament effects, Panchroma™ aim to enhance projects with simplicity.

Step into the Chromaverse and transform filament palette into vibrant realities!

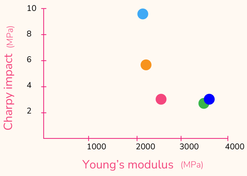
COLOR RANGES

CoPE · Matte · Satin · Silk · Others

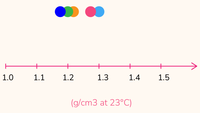
TENSILE STRENGTH



IMPACT STRENGTH



DENSITY



VICAT SOFTENING TEMP.

CoPE	66°C
Matte	63°C
Satin	62°C
Silk	64°C
Other	63°C

RECOMMENDED PRINTING SETTINGS

	PRINTING SPEED	PRINTING TEMP.	BED TEMP.
CoPE	Up to 400mm/s	190-230°C	25-60°C
Matte	Up to 300mm/s		
Satin	Up to 300mm/s		
Silk	Up to 200mm/s		
Others	Up to 200mm/s		

SUPPORT

Recommended support material

PolySupport™ & PolyDissolve™ S1

POLYDRYER™ LEVEL

CoPE	1
Matte	1-3
Satin	1-3
Silk	1
Other	1

DATA TABLE

COLOR RANGE	CoPE	MATTE	SATIN	SILK	OTHERS
Density (g/cm3 at 23°C)	1.30	1.37	1.24	1.20	1.17
Vicat softening temperature (°C)	66	62	62	64	63
Young's modulus (X-Y, MPa)	2515±71	1997±64	2246±91	3364±89	3427±65
Tensile strength (X-Y, MPa)	51.6±0.3	23.2±0.5	31.1±0.8	57.9±1.5	52.3±0.3
Tensile strength (Z, MPa)	36.1±1.2	12.2±0.7	16.7±0.4	20.2±5.7	40.5±0.5
Notched Charpy impact strength (kJ/m²)	2.9±0.1	10.0±0.8	6.7±0.5	2.9±0.1	3.3±0.2
Printing temperature (°C)	190-230				
Bed temperature (°C)	25-60				
Printing speed	<400mm/s	<300mm/s	<300mm/s	<200mm/s	<200mm/s
Recommended drying setting	55°C for 6h				

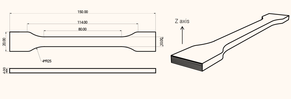
1. Testing method of Vicat softening temperature is ISO 306. Testing method of Young's modulus and Tensile strength is ISO 527. Testing method of Notched Charpy impact strength is ISO 179.
2. Printing speed is based on 0.4mm line width and 0.2mm layer height. It varies with different line width and layer height.

HOW TO MAKE SPECIMENS

Printing temperature	230°C
Bed temperature	50°C
Shell	2
Top & bottom layer	3

Infill	100%
Environmental temperature	Ambient
Cooling fan	ON

TENSILE TESTING SPECIMEN
ISO 527



IMPACT TESTING SPECIMEN
ISO 179

DISCLAIMER