



SCD Materials	Density (g/cm ³)	Water Resistant	Chemically Resistant	Creep Resistant	Heat Distortion Temp @ 0.45 MPa	Heat Distortion Temp @ 1.80 MPa	Tensile Strength (10 MPa)	Tensile Modulus (1000 MPa)	Elongation at Break (%)	Flexural Strength (10 MPa)	Flexural Modulus (1000 MPa)	Impact Strength (kJ/m ²)
PLA	1.24	+	+	+	57 °C (135 °F)	/	3.90	4.65	12.5	7.25	2.850	6.00
PLA Matte	1.42	+	+	+	58 °C (136 °F)	/	3.90	2.40	3.0	7.75	2.200	7.50
ABS	1.05	++	+	+++	85 °C (185 °F)	/	4.10	3.85	11.0	7.75	2.700	20.00
ABS-GF25	1.15	+++	+	+++	97 °C (207 °F)	93 °C (199 °F)	4.85	3.75	2.1	7.88	3.532	8.91
PETG-Tough	1.24	+++	++	+++	78 °C (172 °F)	73 °C (163 °F)	4.03	1.78	4.0	6.28	1.919	13.90
ASA	1.07	+++	+	+++	94 °C (201 °F)	86 °C (187 °F)	3.85	2.32	5.2	6.45	2.600	12.90
TPU95A-HF	1.15	+	+	+	/	/	/	/	/	/	/	/
PP	0.90	+++	++	++	63 °C (145 °F)	/	2.90	0.44	34.0	4.50	0.293	49.00
UltraPA (Nylon)	1.21	++	++	++	78 °C (172 °F)	73 °C (163 °F)	8.62	3.61	11.7	12.15	3.314	5.78
PC/ABS-FR	1.08	++	+	+++	106 °C (223 °F)	102 °C (216 °F)	4.01	2.15	2.7	6.78	2.041	19.90
PLA-CF	1.25	+	+	+	55 °C (131 °F)	53 °C (127 °F)	5.49	4.02	4.9	9.16	4.197	6.65
PET-CF	1.30	+++	+++	+++	149 °C (300 °F)	112 °C (234 °F)	8.74	6.03	2.0	12.27	5.313	5.57
PAHT-CF	1.20	++	+++	+++	192 °C (378 °F)	122 °C (252 °F)	10.49	8.38	1.6	14.77	5.969	6.17
PA12-CF	1.09	+	++	+	150 °C (302 °F)	112 °C (234 °F)	8.75	5.44	2.6	13.32	4.667	6.11

1. ISO 75: Method A (0.45 MPa) / ISO 75: Method A (1.80 MPa)

2. For all mechanical properties a test specimen dogbone was printed horizontal and max infill

Tensile: Test Method ISO 527

Impact: Test Method ISO 179

Flexural: Test Method ISO 178

3. Notch (type A) impact strength (KJ/m²)