

Materials Data Sheet



Fabrica's proprietary materials reach new levels of precision, opening endless possibilities for additive manufacturing.



PERFORMANCE



P-900

Reinforced Composite

with high-temperature-tolerance and high wear resistance.

P-910

Extreme thermal performance

Ideal for prototyping and manufacturing precision parts that require high heat resistance, such as injection molding.



DURABLE



D-810

ABS-like

Durable, rigid material, enabling high structural integrity.

D-820

PVC-like

High endurance over repeated use where flexibility is required.



TRANSPARENT



T-700

PMMA-like

Transparent rigid material that enables high structural integrity with high accuracy.



MEDICAL



M-810

Non cytotoxic material (ISO-10993) suitable for tiny and precise medical device components.

Materials Data Sheet

BASED ON
STANDARD

PERFORMANCE

DURABLE

TRANSPARENT

MEDICAL

		P-900	P-910	D-810	D-820	T-700	M-810
Tensile strength (Mpa)	ASTM D-1708	60	70	50	21	38	50
Young's Modulus (MPa)		660	635	550	321	460	550
Elongation at break (%)		11	15	11	7.5	12	11
Flexural strength (MPa)	ASTM D-790	98	110	80	31.4	73	80
Flexural Modulus (MPa)		2000	2600	1600	512	1350	1600
Flexural max strain (%)		7.6	5.0	6	12	6.5	6
Shore hardness	Scale D ASTM D 2240	90	89	88	76	84	88
Tg (°C)	DMA ASTM D 7028	140	184	120	55	100	120
Df (100GHz)	ASTM D150	0.017		0.015			0.015
Dk (100GHz)		2.14		2.65			2.65
Density of Liquid Resin (gr/cm ³)	ASTM D1475	1.17	1.14	1.08	1.08	1.09	1.08
Density (g/cm ³)	ASTM D792	1.27	1.24	1.15	1.19	1.15	1.15
Resolution (µm)		2	2	2	2	5	2



NANODIMENSION
FABRICAGROUP