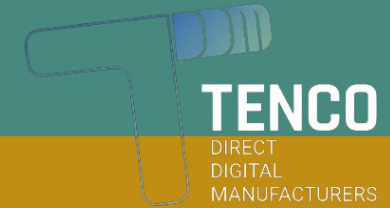


MATERIALS May 2026



This is an overview of materials commonly used for additive manufacturing and the compliance requirements they meet. Please, contact our team for more clarification on specific combinations, or to discuss supporting documentation.

GENERAL PURPOSE

	Technique	HDT 0,455 Mpa (°C)	Tensile strenght (Mpa)	Tensile modulus (Mpa)	Elongation at break (%)	Flexural Modulus (Mpa)	Shore Hardness (3sec)	General Tolerance	Color
Raplas RR60WH	SLA	54 °C ASTM D648	54 Mpa ASTM D638	2920 Mpa ASTM D638	5 % ASTM D638	2670 Mpa ASTM D790	81 D ASTM D2240	0,1mm	White
Loctite IND403	DLP	80 °C ASTM D648	70 Mpa ASTM D638	2600 Mpa ASTM D638	10 % ASTM D638	2700 Mpa ASTM D790	80 D ASTM D2240	0,1mm	Black
Loctite 3D 3843	DLP	63 °C ASTM D648	51 Mpa ASTM D638	1800 Mpa ASTM D638	43 % ASTM D638	1800 Mpa ASTM D790	75 D ASTM D2240	0,1mm	Black
Basf Ultracur ST80 B	DLP	52 °C ASTM D648	35 Mpa ASTM D638	1650 Mpa ASTM D638	25 % ASTM D638	2700 Mpa ASTM D790	77 D ASTM D2240	0,1mm	Black
PA12	SLS	130 °C ISO 75-1/-2	48 Mpa ISO 527-1/-2	1600 Mpa ISO 527-1/-2	18 % ISO 527-1/-2	1500 Mpa ISO 178	75 D ISO 868	0,4mm	White
PA11	SLS	176 °C ISO 75-1/-2	52 Mpa ISO 527-1/-2	1750 Mpa ISO 527-1/-2	28 % ISO 527-1/-2	1750 Mpa ISO 178	80 D ISO 868	0,4mm	White
PLA	FDM	57°C ISO 75-2 / B	70 Mpa ISO 527-1/-2	3300 Mpa ISO 527-1/-2	8 % ASTMD3039	2800 Mpa ISO178	85 D ISO7619-1	0,3mm	Any color
PETG	FDM	69°C ISO 75-2 / B	39 Mpa ISO 527-1/-2	1800 Mpa ISO 527-1/-2	8 % ASTMD3039	1800 Mpa ISO178	76 D ISO 7619-1	0,3mm	Any color
ABS	FDM	87°C ISO 75-2 / B	35 Mpa ISO 527-1/-2	1900 Mpa ISO 527-1/-2	4 % ASTMD3039	2300 Mpa ISO178	76 D ISO 7619-1	0,3mm	Any color

Material performance may vary depending on printer settings, part geometry, and specific applications. All information is based on data from the respective material suppliers and is subject to change without notice. For optimal results, we recommend consulting with us before selecting a material and referring to the latest datasheet provided by the supplier.

HIGH PERFORMANCE | SPECIALS

	Technique	HDT 0,455 Mpa (°C)	Tensile strenght (Mpa)	Tensile modulus (Mpa)	Elongation at break (%)	Flexural Modulus (Mpa)	Shore Hardness (3sec)	General Tolerance	Color
Loctite IND3380 <i>ESD properties</i>	DLP	190 °C ASTM D648	50 Mpa ASTMD638	3000 Mpa ASTMD638	2 % ASTMD638	3400 Mpa ASTM D790	86 D ASTM D2240	0,2mm	Black
EnvisionTEC RCP30	DLP	67 °C ASTM D648	46 Mpa ISO 527-1	3600 Mpa ISO 527-1	2 % ISO 527-1	3860 Mpa ISO 178	93 D ISO 868	0,1mm	Orange
Basf Ultracur RG3280	DLP	284 °C ASTM D648	87 Mpa ASTM D638	10 600 Mpa ASTM D638	1 % ASTM D638	8780 Mpa ASTM D790	96 D ASTM D2240	0,2mm	White
PLA-CF	FDM	91 °C ISO 75-1	48 Mpa ISO 527	4950 Mpa ISO 527	2 % ISO 527	6320 Mpa ISO 178	85 D ISO 868	0,3mm	Black
PA6-CF	FDM	215 °C ISO 75-1	105 Mpa ASTM D638	7450 Mpa ASTM D638	3 % ASTM D638	6500 Mpa ASTM D790	80 D ASTM 2240	0,3mm	Black
ASA <i>UV-stable</i>	FDM	88 °C ISO 75-1	45 Mpa ISO 527	1300 Mpa ISO 527	10 % ISO 527	3200 Mpa ISO 178	68 D ISO 868	0,3mm	Any color
PAGF	SLS	179 °C ASTM D648	27 Mpa ASTM D638	4000 Mpa ASTM D638	3 % ASTM D638	3120 Mpa ASTM D790	77 D ASTM 2240	0,4mm	Grey
PACF	SLS	181 °C ASTM D648	84 Mpa ASTM D638	8500 Mpa ASTM D638	4 % ASTM D638	7000 Mpa ASTM D790	80 D ASTM 2240	0,4mm	Dark Gray
Etec HTM 140	DLP	140 °C ASTM DF648	56 Mpa ASTM D638	3800 Mpa ASTM D638	3 % ASTM D638	3350 Mpa ASTM D790	80 D ASTM 2240	0,1mm	Dark Green
Iglidur® i3000-PR	DLP	80 °C ASTM DF648	43 Mpa ISO 527	1750 Mpa ISO 527	3,5 % ASTM D638	3310 Mpa ISO 527	78 ISO 48-4	0,1mm	Grey
colorFabb <i>Metal Detectable</i>	FDM	90 °C HDT-B, ISO 75	85 Mpa ISO 527-1A	3800 Mpa ISO 527-1A	4 % ISO 527-1A	--	-	0,3mm	Blue
3Dresyn CR UHT <i>High Chemical Resistance</i>	DLP	220 °C --	43 Mpa --	3000 Mpa --	2 % --	--	--	0,1mm	Blue
3Dresyn® PEEK-like	DLP	110 °C ISO 75	60 Mpa ISO 527-1/2	2500-3000 Mpa ISO 527-1/2	3 % ISO 527-1/2	--	85-90 D ISO 868	0,1mm	Black/Clear
ABS-Like Resin Pro 2	DLP	60-65 °C --	35-45 Mpa --	1600-1800 Mpa --	35-40 % ASTM D638	1400-1800 Mpa --	82-84 D --	0,1mm	Black/White

ELASTOMERS

	Technique	Tensile strength (Mpa)	Tensile modulus (Mpa)	Elongation at break (%)	Shore Hardness (3sec)	General Tolerance	Color
Ultracur FL300	DLP	5 Mpa ASTM D412C	2 Mpa ASTM D412C	245 % ASTM D412C	40 A ASTM D2240	0,2mm	Clear
Loctite IND475 B	DLP	3 Mpa ASTM D638	2,5 Mpa ASTM D638	140 % ASTM D638	48 A ASTM D2240	0,2mm	Black
Loctite IND475 W	DLP	5 Mpa ASTM D638	1 Mpa ASTM D638	160 % ASTM D638	62 A ASTM D2240	0,2mm	White
Basf Ultracur EL60	DLP	9 Mpa ASTM D412C	4 Mpa ASTM D412C	95 % ASTM D412C	75 A ASTM D2240	0,2mm	Clear
Basf Ultracur EL4000	DLP	11 Mpa ASTM D412C	7 Mpa ASTM D412C	170 % ASTM D412C	90 A ASTM D2240	0,2mm	Clear
TPU	FDM	39 Mpa ASTM D638	26 Mpa ASTM D638	580 % ASTM D638	95 A ASTM D2240	0,4mm	Black
TPU	SLS	8 Mpa ASTM D412C	70 Mpa ASTM D412C	101 % ASTM D412C	88 A ASTM D2240	0,5mm	Grey

TRANSPARENT

	Technique	HDT 0,455 Mpa (°C)	Tensile strength (Mpa)	Tensile modulus (Mpa)	Elongation at break (%)	Flexural Modulus (Mpa)	Shore Hardness (3sec)	General Tolerance	Color
RR60CL	SLA	55 °C ASTM D648	52 Mpa ASTM D638	2500 Mpa ASTM D638	8 % ASTM D638	2000 Mpa ASTM D790	83 D ASTM D2240	0,1mm	White
Ultracur ST45	DLP	73 °C ASTM D648	60 Mpa ASTM D638	2300 Mpa ASTM D638	2% ASTM D638	2400 Mpa ASTM D790	80 D ASTM D2240	0,1mm	Black/White