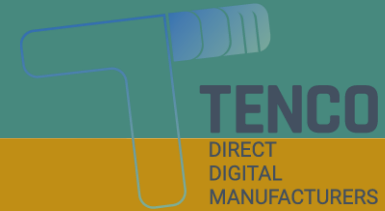


# MATERIALS November 2025



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
<b>RR60WH</b>	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
<b>Loctite IND403</b>	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
<b>Loctite 3D 3843</b>	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
<b>Ultracur ST80 B</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
<b>PA12</b>	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
<b>PA11</b>	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
<b>PLA</b>	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
<b>PETG</b>	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
<b>ABS</b>	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
<b>Loctite IND3380</b> <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
<b>RCP30</b>	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
<b>Ultracur RG3280</b>	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
<b>PLA-CF</b>	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
<b>PA6-CF</b>	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
<b>ASA</b> <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
<b>PAGF</b>	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
<b>PACF</b>	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
<b>HTM 140</b>	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
<b>Iglidur i3000-PR</b>	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
<b>colorFabb</b> <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	NA	-	0,3mm	Blue

## ELASTOMERS

	Technique	Tensile strength (Mpa)	Tensile modulus (Mpa)	Elongation at break (%)	Shore Hardness (3sec)	General Tolerance	Color
<b>Ultracur FL300</b>	DLP	5 Mpa ASTM D412 C	2 Mpa ASTM D412 C	245 % ASTM D412 C	40 A ASTM D2240	0,2mm	Clear
<b>Loctite IND475 B</b>	DLP	3 Mpa ASTM D638	2,5 Mpa ASTM D638	140 % ASTM D638	48 A ASTM D2240	0,2mm	Black
<b>Loctite IND475 W</b>	DLP	5 Mpa ASTM D638	1 Mpa ASTM D638	160 % ASTM D638	62 A ASTM D2240	0,2mm	White
<b>Ultracur EL60</b>	DLP	9 Mpa ASTM D412 C	4 Mpa ASTM D412 C	95 % ASTM D412 C	75 A ASTM D2240	0,2mm	Cleas
<b>Ultracur EL4000</b>	DLP	11 Mpa ASTM D412 C	7 Mpa ASTM D412 C	170 % ASTM D412 C	90 A ASTM D2240	0,2mm	Clear
<b>TPU</b>	FDM	39 Mpa ASTM D638	26 Mpa ASTM D638	580 % ASTM D638	95 A ASTM D2240	0,4mm	Black
<b>TPU</b>	SLS	8 Mpa ASTM D412 C	70 Mpa ASTM D412 C	101 % ASTM D412 C	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
<b>RR60CL</b>	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
<b>Ultracur ST45</b>	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

UV-stable