

Filament 3D Printing Material Types

Obviously this is a work in progress and will change...

[illegible]

PA12 (PolyA mide)									\$90	Moistur e resista nt nylon
PA6 (PolyA mide)	260- 280c	60-75c	20-40c	240c		120c			\$50	Higher temp nylon and better stiffnes s
PAEK (PolyAr ylEther Ketone)	380- 420c	140- 160c	120- 155c	303c	151c			170c2h < 3c/min < 165c(1 80c)	\$1,374	
PBT (PolyBu tyleneT ereph thalate)	205- 240c	60c		223c					\$30	
PC (PolyCa rbonat e)	280- 310c	90- 120c			147c				\$90	
PCTG (PolyEt hylene Tereph thalate Glycol modifie d Copoly ester)	250- 270c	70-80c		202c	76c				\$100	
PE (PolyEt hylene)	210- 230c	100- 120c							\$35	

PEEK (PolyEtherEtherKetone)	375-410c	130-145c	70-140c	343c	150c	260c			\$600	
PEI-1010 (PolyEtherImide)	370-390c	120-160c			217c			300F1h < 400F1h < 300F.5h	\$196	
PEI-9085 (PolyEtherImide)	350-380c	140-160c			186c				\$290	
PEKK-A (PolyEtherKetoneKetone)	345-375c	120-140c	70-140c	335c	162c	260c (150c NoAnneal)		160c.5h < 200c	\$590	
PEKK-C (PolyEtherKetoneKetone)	345-375c	120-140c	70-150c	335c	162c	260c (150c NoAnneal)		160c.5h < 200c	\$990	
PESU (PolyEtherSulfone)	340-390c	140-160c			228c				\$190	
PETG (PolyEthyleneTerephthalate Glycol)	230-250c	60-80c							\$25	Easy printing and "high enough" temp resistance

PLA (PolyLacticAcid)	190-230c	50-60			55c				\$20	Fine details and easy printing
PP (PolyPropylene)	220-250c	23-60c							\$104	Chemical resistance and weight
PPA (PolyPhthalAmide)	285-315c	110-120c	80-120c	260c	125c				\$350	
PPS (PolyPhenyleneSulfide)	315-345c	120-160c	60-90c	285c	85c			80c1h < 130c3h	\$200	
PPSU (PolyPhenylSulfone)	390-410c	130-160c			230c				\$250	
PSU (PolySulfone)	350-380c	140-160c			187c				\$250	
PVB (PolyVinylButyral)	190-220c	25-70c			70c		260c		\$25	Isopropanol vapor smoothing
PVDF (PolyVinylideneFluoride)	245-265c	90-110c							\$255	

TPU (Thermoplasti cPolyUr ethane)	210- 240c	30-50c							\$30	Flexible and wear resista nt
CoPE (CoPoly Ester)	190- 230c	35-60c			55c				\$20	Cheape r than PLA

[Link to Most Current Spreadsheet on Google Docs](#)

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