

HLH

Material Guide

CNC – 3D - Vacuum

CNC Machining Materials

Type	Material Name	Model	Notes
Plastic	Similar to ABS	White ABS	
		Black ABS	
		Cream ABS	
		Fireproof ABS	Milky
	PC	Translucent PC	Can be polished transparent
		Black PC	
		Fireproof Black PC V0	
		PC+ABS	
	Similar to ABS	White PP	Very difficult to join by gluing, so not recommended to split and rejoin
		Black PP	
		High Density PP	
		PP+20%GF	
		PP+GF	
	PMMA	Translucent	Can be polished transparent
		Black PMMA	
	PE	PE	
		HDPE	
		LDPE	
		White PE+15%GF	
	PA	PA66	
		PA+15%GF	
		PA+30%GF	
		PA+20%GF	
POM	White POM	Cannot be split and rejoined	
	Black POM		
	Anti-static Black POM		
PEEK	PEEK		

CNC Machining Materials Continued

Plastic	PBT	PBT	
		PBT+30%GF	
	PET	PET	
	PTEE	PTFE	
	PPS	PPS	
		PPS+30%GF	
	PEI	PEI	Amber Colour/Black
	PVC	PVC	Gray/White
	Bakelite		
	Model Board		

Metal	Copper	Brass	
		Beryllium Copper	
		Copper	
		Bronze	
		Beryllium Bronze	
		Phosphor Bronze 510	
	Zinc Alloy		
	AL	AL7075	
		AL7075 T6/T7351	
		AL2024 T3/T4/T351	
		AL2024 T351/T6	
		AL6061	
		AL6061 T6/T651	
		AL5052 H32	
		AL5082	

CNC Machining Materials Continued

Metal	AL	AL5083	
		AL2017	
		AL2017 T351/T4	
		ADC12	
		A380	
		LM24	
	Steel	Steel 45#	
		Alloy Steel	
		Spring Steel	
		Bearing Steel	
		Mild Steel	
		Cold Roll Steel	
		Tool Steel	
		41CrALMo7	
		Magnetic Steel	
		Steel8620	
		Steel4130	
		Steel9310	
		Steel1018	
	Stainless Steel	17-4PH	
		SS201	
		SS202	
		SS301	
		SS303	
		SS304	
		SS304L	
	SS316		

CNC Machining Materials Continued

Metal	Stainless Steel	SS321	
		SS310S	
		SS401	
		SS409	
		SS410	
		SS416	
		SS4140	
		SS4340	
		SS455	
		SS630	
		SS316L	

3D Printing Materials

Type	Material Name	Model	Notes
SLS	PA	PS3300PA	
	PA+GF	PS3400GF	
SLA	Similar to ABS	8000#	
	Similar to ABS	9000#	
	Similar to ABS	UV9400#	High temp resistance 100C

Vacuum Casting Materials

Type	Material Name	Model	Notes
Plastic	Similar to ABS	8150	
	Similar to ABS	DPI8150	
	Similar to PC	PX520	
	Similar to PA	PX223	
	Soft Rubber	8400	
	Similar to Acrylic	PX521	Transparent
	Transparent Soft Rubber	T-0387	
	Similar to ABS	8263	Flame retardant (HB)
	Similar to ABS	DPI600	
	Similar to ABS	PX200	
	ABS	PX5118	
	Similar to ABS	PX600	