

# HLH

## Material Guide CNC Machining

## CNC Machining Materials

Type	Material	Model Reference	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**

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

**CNC Machining Materials Continued**

<b>Metal</b>	<b>Stainless Steel</b>	<b>SS321</b>	
		<b>SS310S</b>	
		<b>SS401</b>	
		<b>SS409</b>	
		<b>SS410</b>	
		<b>SS416</b>	
		<b>SS4140</b>	
		<b>SS4340</b>	
		<b>SS455</b>	
		<b>SS630</b>	
		<b>SS316L</b>	