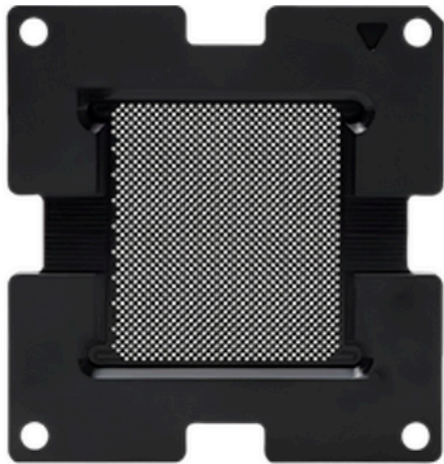


CNC Engineering Plastics

SUITABLE FOR CNC MACHINING



MATERIAL NAME

CNC Engineering Plastics

COLOR

Multiple Colors

PROCESS

CNC

PRODUCT DESCRIPTION

Engineering Plastics are a class of high performance polymer materials with excellent mechanical properties, heat resistance, chemical resistance and dimensional stability. They are widely used in automotive, electronics, medical, aerospace, industrial manufacturing and other fields, especially for CNC machining to manufacture high-precision parts.

TYPICAL APPLICATIONS

- Aerospace (Lightweight Structural Components)
- Electronic equipment (Optical lenses)
- Medical Equipment (Surgical instruments)
- Industrial pipe and cable sheathing

PRODUCT SAFETY

- Engineering plastics are fine to touch under normal circumstances, but a very small number of people may have allergic reactions to the additives in them.
- When melted at high temperatures, irritating gases may be released.

PRODUCT DELIVERY & WAREHOUSING

- **STORAGE**

Storage should be dry, away from light, temperature storage, to avoid humidity, high temperature and chemical corrosion.

- **TRANSPORTATION**

Shock-proof, moisture-proof, and anti-static during transportation, especially for precision parts and hygroscopic materials, should be sealed and packed with buffer materials.

MATERIALS WE SUPPORT:

Code	Color	Density (g/cm ³)	Hardness	Tensile Strength, Yield(Mpa)	Elongation at Break (%)	Heat Deflection Temperature (°C)
PVC	Transparent/Gray/White/Blue	1.3-1.58	80 Shore D	45.6	110	72.5
PE	True color/Black	0.91-0.97	50~70 Shore D	8~30	200~700	70~85
UHMWPE	True color/Black/Yellow/Green	0.94	66 Shore D	40	300	46.7
POM	True color/Black/Red/Blue	1.41-1.43	135 Shore D	65~70	31	155
DERLIN	True color/Black/Red/Blue	1.42-1.43	80 Shore D	65~70	15	110~135
PMMA	Transparent/Multiple colors	1.17-1.2	85~105 Shore D	50~75	2~3	100
PC	Transparent	1.18-1.2	121 Shore D	60~80	90	135
PP	True color /Cream-grey	0.9	60~70 Shore D	30~40	200~600	100~110
PS	/	1.1	60~75 Shore D	46~60	1.2~2.5	76~94
ABS	Beige/Black/Transparent	1.03	100 Shore D	35~63	10~50	95
PA6	True color/Black	1.1	85~95 Shore D	68~83	30~50	200~250
PA66	True color/Black	1.1	90~105 Shore D	60~83	2~3	250
PA-MC	Blue & Ivory	1.1	70~90 Shore D	50~80	50~300	200~250
PTFE	White	2.2	50~60 Shore D	27.6	238	260
PET	True color/Black	1.38	60~75 Shore D	50~80	50~100	85
PBT	/	1.3	80~110 Shore D	100~170	1~3	60
PEEK	True color/Black	1.3	62~89 Shore D	65~120	30~50	182~210
PEI	Amber transparent/Multiple colors	1.27	80~95 Shore D	90~100	60~80	220
PI	/	1.4	70~85 Shore D	70~150	50~200	250~350
DERLIN AF	/	1.5	75~85 Shore D	60~70	15~30	100~115
ESD225	cream-coloured/Ivory	1.4	80~85 Shore D	70~100	30~50	90~120
ESD420	Black	1.27	80~85 Shore D	75~100	20~40	90~120
ESD520	Tawny grey	1.4	80~85 Shore D	80~100	20~50	90~120
MC501CDR6	Black	1.2	90 Shore D	70~90	30~50	100~130

Tips: Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>

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