

Overview

KWSP is a leader in designing for manufacture using FDM technology and engineering grade thermoplastics to help create advanced technical solutions across all industries

Material Specification

MATERIAL	APPLICATION	RESOLUTION	HEAT DEFLECTION	TG	UTS	COLOUR
ABS M30	An ideal material for conceptual modelling, functional prototyping, manufacturing tools, and end-use-parts.	0.127mm, 0.177mm, 0.254mm, 0.330mm	96°C	108°C	31MPa	Black White Grey Blue Red
ABS M30i	A high strength material well suited for the medical, pharmaceutical and food packaging industries. Parts manufactured with ABS-M30i material are biocompatible (ISO 10993 USP Class VI) and can be gamma or EtO sterilized.	0.127mm, 0.177mm, 0.254mm, 0.330mm	95°C	108°C	36MPa	White
PC-ABS	Polycarbonate-ABS offers the most desirable properties of both materials - the superior strength and heat resistance of PC and the flexibility of ABS, with automotive, electronics and telecommunications applications.	0.127mm, 0.177mm, 0.254mm, 0.330mm	110°C	125°C	41MPa	Black
PC	A true industrial thermoplastic, PC (polycarbonate) is widely used in automotive, aerospace, medical and many other applications. PC offers durability and stability, creating strong parts that withstand functional testing, and superior mechanical properties to other thermoplastics.	0.177mm, 0.254mm, 0.330mm	138°C	161°C	42MPa	White
SR30	Soluble support material, suitable as washout and heat out composite mandrels. (Contact KWSP for further details).	0.127mm, 0.177mm, 0.254mm, 0.330mm	95°C	108°C	31MPa	White
ULTEM* 9085	ULTEM™ 9085 resin is a flame-retardant high-performance thermoplastic. It is ideal for the transportation industry due to its high strength-to-weight ratio and its FST (flame, smoke and toxicity) rating.	0.254mm, 0.330mm	153°C	186°C	69MPa	Black Tan