

Vacuum Casting Polyurethane Resins *

Material	Supplier	Material Simulation	Strength Shore	Flexion (MPA)	Temp C. Max	Product Colour Description	Advantages & Disadvantages	Shrink-age
ABS TYPE *								
8150	Hei-CAST	ABS	83shD	1790	85	Amber, White & Black	Good Resistance	1
UP4280	Axson	ABS	81 shD	2200	93	White	Good Resistance	1
PX100	Axson	PS chocs	74 shD	1500	70	White	Ideal	1
POLYPRO TYPE *								
8550	Hei-CAST	PP	76 shD	960	70	White and Black	Good Resistance	1
UP5690	Axson	PP	75-83 shD	600-1300	70	White and Black	Good Resistance	1
COLORABLE ELASTOMERS *								
8400	Hei-CAST	Elasromer	20-90 shA	////	//	Mix Colours	Good Bend	1
8400	Axson	Elastomer	20-90 shA	////	//	Mix Colours	Good Bend	1
HIGH TEMPERATURE *								
8090	Hei-CAST	PC	85 shD	2254	105	Clear	High Temp 105C	1
8099	Hei-CAST	PS chocs	82shD	1900	175	Black	High Temp 175C	1
PX223 HT	Axson	ps/ABS	80shD	2300	120	Black	Ideal TG 120C	1
UL-VO *								
8260	Hei-CAST	ABS	83 shD	1800	85	White	94VD flame retard	1
PX330	Axson	Loaded abs	87 shD	3300	100	Off White	V 0 far 25	1
CLEAR *								
PX522HT	Axson	PMMA	87 shD	2100	100	Clear	Coloration TG100C	0.99

Injection Moulding Equipment *

Brand	Model	Clamp	Injection	QTY	Original
HAITIAN	HTF160X1	1600 KN	320 CM3	6	CHINA
HAITIAN	HTF450X1	4500 KN	1860 CM3	4	CHINA
HAITIAN	HTF1000W2	10000 KN	4847 CM3	2	CHINA
HAITIAN	HTF1300W2	13000 KN	7705 CM3	2	CHINA

CNC Equipment *

Equipment Name	Type	Qty	Original
MIKRON HSM800	800×500×550 36000rpm	1	SWITZERLAND
MIKRON HSM300	380×390×255 30000rpm	1	SWITZERLAND
JET-TECH S-800	800×350×410 12000rpm	1	TAIWAN
VMC-850	800×500×600 8000rpm	3	TAIWAN

EDM *

Equipment Name	Type	Qty	Original
ENC560	600×500×400	1	TAIWAN
DM-323	300×200×250	3	TAIWAN
DM-408	400×300×300	2	TAIWAN

Wire Cut *

Equipment Name	Type	Qty	Original
DK-7725A	250×350	1	TAIWAN
DK-7728	300×370	2	TAIWAN
DK-7735	370×450	1	TAIWAN

Common Material Used

ABS	Acrylonitrile-Butadiene-Styrene
HDPE	High density Polyethylene
LDPE	Low density Polyethylene
MDPE	Medium density Polyethylene

PEEK	Polyetheretherketone
PET	Polyethylene terephthalate
PMMA	Polymethylmethacrylic
POM	Polyacetal

PA	Polyamide
PA6	Polyamide 6
PA6/6	Polyamide 6/6
PC	Polycarbonate

PP	Polypropylene (TP)
PS	Polystyrene (TP)
PVC	Polyvinyl Chloride (TP)
TPE	Thermoplastic Elastomer (TPE)

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* But not Limited to