

ChiMei

MABS

PA-758

Product information

Part Marking Code	MABS
Color	TP
Material Shape	Pellets
Process	Injection molding
FR	HB
specification	RoHS、UL
Material Attribute	Injection molding grade transparent ABS
Features	High fluidity, rapid prototyping, easy molding
Application	Office equipment applications, electronic and electrical housings, home appliance housings, washing machine housings, industrial applications, kitchen applications, pen housings, stationery, vacuum cleaner housings, thin-wall products, wearable products

Mechanical behavior	Condition	Standard	Value	Unit
Elongation	6mm/min	ASTM D638	40	%
Elongation	50mm/min	ISO 527	40	%
Flexural Strength	2.8mm/min	ASTM D790	550	kg/cm2
Flexural Strength	2.8mm/min	ASTM D790	7780	lb/in2
Flexural Strength	2.0mm/min	ISO 178	57	MPa
Flexural Modulus	2.8mm/min	ASTM D790	19000	kg/cm2
Flexural Modulus	2.8mm/min	ASTM D790	270000	lb/in2
Flexural Modulus	2.0mm/min	ISO 178	1.9	GPa
Izod Notch Impact	23°C 6.40mm	ASTM D256	16	kg-cm/cm
Izod Notch Impact	23°C 6.40mm	ASTM D256	3.0	ft-lb/in
Izod Notch Impact	23°C 3.20mm	ASTM D256	15	kg-cm/cm
Izod Notch Impact	23°C 3.20mm	ASTM D256	2.8	ft-lb/in
Izod Notch Impact	23°C	ISO 180	14	kJ/m ²
Izod Notch Impact	-30°C	ISO 180	7	kJ/m ²
Tensile Strength	Yield 50mm/min	ASTM D638	405	kg/cm2
Tensile Strength	Yield 50mm/min	ASTM D638	5850	lb/in2
Tensile Strength	Yield 50mm/min	ISO 527	42	MPa
Tensile Strength	Break 50mm/min	ISO 527	33	MPa
Charpy Notch Impact	23°C	ISO 179	14	kJ/m ²
Charpy Notch Impact	-30°C	ISO 179	7	kJ/m ²

Thermal	Condition	Standard	Value	Unit
HDT	Annealed 1.8MPa	ASTM D648	99	°C
HDT	Unannealed 1.80MPa	ASTM D648	88	°C
HDT	Unannealed 1.80MPa	ISO 75	77	°C
HDT	Annealed 1.8MPa	ISO 75	97	°C

CLE		ISO 11359	9E-5	cm/cm/°C
Vicat Softening Temperature	50°C/hr 10N	ASTM D1525	105	°C
Vicat Softening Temperature	50°C/hr 10N	ASTM D1525	221	°F
Vicat Softening Temperature	50°C/hr 10N	ISO 306	104	°C
Vicat Softening Temperature	50°C/hr 50N	ISO 306	96	°C
Physical property	Condition	Standard	Value	Unit
Shrinkage		ISO 294	0.3~0.7	%
Density	23°C	ASTM D792	1.08	g/cm ³
Density	23°C	ISO 1183	1.08	g/cm ³
Melt Index	200°C 5kg	ASTM D1238	3.0	g/10min
Melt Index	200°C 5kg	ISO 1133	3.0	cm ³ /10min
Hardness	Condition	Standard	Value	Unit
Rockwell Hardness	R(Scale)	ASTM D785	107	
Flammability	Condition	Standard	Value	Unit
Flame Rating	1.5mm	UL94	HB	
Flame Rating	1.5mm	UL94	HB	