



Kimia Baspar Golpa

ABSH100

Semi Heat Resistance

General Information

● **Characteristic:** General ABS>Semi Heat Resistance grade

● **Application:** Mirror housings, Hair dryer shells, Electric oven exterior parts, Automobile parts
Electronic and Electrical parts, and etc.

Physical Property

Property	Test method	Test condition	Unit	Nominal Values
Mechanical Property				
Notched Izod impact	ASTM D256	23°C	KJ/m2	18
Rock well hardness	ASTM D-785	R-Scal	R-Scal	110
Tensile stress at yield	ASTM D638	23°c , 50 mm/min	Mpa	41
Tensile modulus			Mpa	2050
Elongation at Yield			%	5
Elongation at break			%	15
Flexural modulus	ASTM D790	23°c	Mpa	2100
Flexural strength			Mpa	63
Flammability				
Flammability	UL94	⅜ inch (3.2 mm)	HB (<76mm/min)	HB
Thermal Property				
HDT(Heat Deflection	ASTM D648	unannealed1.82MPa	°C	88
Polymer property				
Melt flow index	ASTM D1238	220°c , 10kg	g/10min	18
Density	ASTMD792	23°c	g/cm3	1/06
Mold shrinkage	ASTM D955	100*100*3.2 mm	%	0.5~0.7

1-The above data are typical values.they are only for material selection purpose,and variation within normal telorances are for various colors.

typical values are not our specification and not be used for part or tool design.

2-all propertes ,except Melt Flow Index are measured on injection molded specimens and after 48 hour storage at 23°C and in RH of 50%..

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Processing guid (Injection molding condition)

Processing parameters	unit	value
Drying Temperature	°C	80~100
Drying Time	hrs	3~4
Moisture content	%	<0.1
Melt Temperature	°C	200~230
Cylinder Temperature	Reare	°C 210~230
	Middle	°C 210~230
	Front	°C 220~240
Nozzel Temperature	°C	220~240
Mold Temperature	°C	50~70
Back Pressure	kg/cm ²	150~500
Screw Speed	rpm	30~60

Note): Some modifications may be required depending on the specific molding equipment and part configuration.

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