



Kimia Baspar Golpa

ABSH104

Heat Resistance

General Information

● **Characteristic:** General ABS > 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	15
Rock well hardness	ASTM D-785	R-Scal	R-Scal	110
Tensile stress at yield	ASTM D638	23°C , 50 mm/min	Mpa	43
Tensile modulus			Mpa	2300
Elongation at Yield			%	5
Elongation at break			%	13
Flexural modulus	ASTM D790	23°C	Mpa	2150
Flexural strength			Mpa	65
Flammability				
Flammability	UL94	⅜ inch (3.2 mm)	HB (<76mm/min)	HB
Thermal Property				
HDT(Heat Deflection	ASTM D648	unannealed1.82MPa	°C	102
Polymer property				
Melt flow index	ASTM D1238	220°C , 10kg	g/10min	10
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 tolerances are for various colors.

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

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

www.kbgco.ir



Kimia Baspar Golpa

ABSH104

Heat Resistance

Processing guid (Injection molding condition)

Processing parameters	unit	value
Drying Temprature	°C	80~100
Drying Time	hrs	3~4
Moisture content	%	<0.1
Melt Temprature	°C	200~230
Cylinder Tempratre	Reare	°C 210~230
	Middle	°C 210~230
	Front	°C 220~240
Nozzel Temprature	°C	220~240
Mold Temprature	°C	50~70
Back Pressure	kg/cm2	150~500
Screw Speed	rpm	30~60

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

www.kbgco.ir