



Kimia Baspar Golpa

PA6HIM105

Medium Impact Polyamide

General Information

● **Characteristic:** Injection grade, High Impact, good strength, Good stiffness and toughness, chemical and abrasion resistance., Weather Resistance, High scratch resistance

● **Application:** Interior parts – door handle part.

Physical Property

Property	Test method	Test condition	Unit	Nominal Values
----------	-------------	----------------	------	----------------

Mechanical Property

Notched Izod impact	ASTM D256	23°C, 3.2mm	KJ/m2	10
Rock well hardness	ASTM D-785	R-Scal	R-Scal	78
Tensile Strength at yield	ASTM D638	23°C, 50 mm/min	Mpa	60
Elongation at break			%	>50
Flexural modulus	ASTM D790	23°C 10mm/min	Mpa	1400
Flexural strength			Mpa	40

Flammability

Flammability	UL94	¼ inch (3.2 mm)	HB (<76mm/min)	HB
--------------	------	-----------------	----------------	----

Thermal Property

HDT(Heat Deflection Temp)	ASTM D648	unannealed 0.46MPa	°C	170
HDT(Heat Deflection Temp)	ASTM D648	unannealed 1.8MPa	°C	65

Polymer property

Melting Point	DSC Method		°C	215
Density	ASTMD792	23°C	g/cm3	1/1
Mold shrinkage	ASTM D955	100*100*3.2 mm	%	1.3~1.7
Water Absorption	ASTM D570	23°C, water, 24h	%	3.0

Electrical

Dielectric Strength	ASTM D149		Kv/mm	35
Volume Resistivity	ASTM D257		Ω.cm	3*10 ¹³
Dielectric Constant	ASTM D150		10 ⁶ HZ	3.1

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

PA6HIM105	Medium Impact Polyamide
------------------	--------------------------------

Processing guid (Injection molding condition)
--

Processing parameters	unit	value
Drying Temperature	°C	90~110
Drying Time	hrs	2~4
Moisture content	%	<0.1
Melt Temperature	°C	220
Cylinder Tempratre	Reare	°C 220~230
	Middle	°C 220~220
	Front	°C 220~230
Nozzel Temperature	°C	230~240
Mold Temperature	°C	60~80
Injection Pressure	kg/cm2	60~150
Screw Speed	rpm	30~60

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

www.kbgco.ir