



ABS HI100H

Injection Molding

Description

High Impact, High Toughness

Application

Helmet, Pipe & Fittings

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.02
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220℃/10kg	ASTM D1238	g/10min	10
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	390
Tensile Elongation, 3.2mm		ASTM D638	g. e	
@ Yield	50mm/min		%	>5
@ Break	50mm/min		%	30
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm ²	17,200
Flexural Strength, 3.2mm	15mm/min	ASTM D790	kg/cm ²	630
Flexural Modulus, 3.2mm	15mm/min	ASTM D790	kg/cm ²	20,000
IZOD Impact Strength, 6.4mm		ASTM D256	<u> </u>	
(Notched)	23 ℃		kg·cm/cm	43
	-30℃		kg·cm/cm	29
IZOD Impact Strength, 3.2mm		ASTM D256		
(Notched)	23 ℃		kg·cm/cm	50
,	-30 ℃		kg·cm/cm	31
Rockwell Hardness	R-Scale	ASTM D785	-	93
Thermal				
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		$^{\circ}$	86
	4.6kg		${\mathbb C}$	89
Vicat Softening Temperature	-	ASTM D1525		
	5kg, 50°C/h		$^{\circ}$	93
Flammability	-	UL94		HB
Relative Temperature Index		UL 746B		
Electrical			$^{\circ}$	60
Mechanical with Impact			$^{\circ}$	60
Mechanical without Impact			$^{\circ}$	60

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注:以上原料物性数据由厂家发布,我公司仅提供参考!数据如有变动,请联系原料生产厂家获知。我公司不承担任何法律责任!

Updated: 9-Nov-09

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.





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Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	0
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23 ℃	ASTM D257	Ohm∙m	
Arc Resistance	23 ℃	ASTM D495	Ohm⋅cm	6

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Processing Guide (Injection Molding)

Processi	ng Parameters	Unit	Value
Drying Temperature		${\mathbb C}$	80
Drying Time		hrs	2 ~ 4
Minimum Moisture Content		%	0.01
Melt Temperature		${\mathbb C}$	210 ~ 240
	Rear	${\mathbb C}$	180 ~ 200
Cylinder Temperature	Middle	${\mathbb C}$	190 ~ 210
	Front	${\mathbb C}$	200 ~ 220
Nozzle Temperature		${\mathbb C}$	200 ~ 230
Mold Temperature		${\mathbb C}$	40 ~ 70
Back Pressure		kg/cm ²	300 ~ 600
Screw Speed		rpm	30 ~ 60

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

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These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding