

CH612

High impact polystyrene (HIPS)

Technical Data Sheet

Revision date: 2024/4/8

Description

CH612 is a type of polystyrene with moderate fluidity and high impact resistance.

It has good mechanical and heat resistance properties, as well as easy processing and short cycles.

Applications

Widespread injection molding applications, such as office supplies, kitchens and bathrooms, toys, etc.;

Food packaging, such as beverage cups, packaged dairy products, and other disposable items;

Internal parts and casings of household appliances and consumer electronics products.

Properties

Properties		Test Condition	Test Method	Unit	Typical value
Physical	Density	23°C	internal method	g/cm ³	1.04
	Mold Shrinkage	-	internal method	%	0.4~0.7
	MFR	200°C, 5Kg	GB3682.1-2018	g/10min	6
Mechanical	Tensile yield strength	50mm/min, 4.0mm	GB/T1040.2-2022	MPa	25
	Flexural Strength	2.0mm/min, 4.0mm	GB/T9341-2008	MPa	40
	Flexural Modulus	2.0mm/min, 4.0mm	GB/T9341-2008	MPa	1800
	Charpy Izod Impact Strength	A notch (molding notch), 1.0J	GB/T1043.1-2008	KJ/m ²	12
Others	Glossiness	60°, 1.0mm	GB/T2410-2008	/	70
	Vicat softening temperature	B50, 4.0mm	GB/T1633-2000	°C	90
	Flammability rating	1.5mm	UL94	-	HB

Contact Us

Email: rp@synergyindustries.com

Tel number: +91 9717007686

Website: www.synergyindustries.com

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*Note: The above information only represents general information and does not represent the specification value of each product. If you have any questions, please consult our local sales or technical representatives .

Processing Guide (Injection Molding)

Properties		Unit	Value
Drying Temperature		°C	85
Drying Time		Hour	4
Melt Temperature		°C	200
Barrel Temperature	Front	°C	195
	Middle	°C	205
	Rear	°C	210
Nozzle Temperature		°C	215
Mold Temperature		°C	60
Back Pressure		MPa	5
Screw Temperature		°C	210

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