

High Impact Polystyrene (HIPS)

Grade: GON825

Manufacturer: QINGDAO GON PLASTICS CO., LTD.

Technical parameter list / Description

GON825 is a medium fluidity, very high impact polystyrene. It has good mechanical and heat resistance properties, while easy to process, short cycle and so on.

peculiarity: Medium mobility; HIPS; Good mechanical and heat resistance, easy to process, short cycle

Apply: A wide range of injection molding applications, such as: office, kitchen and bathroom supplies food packaging, such as beverage cups, packaging dairy products and other disposable household appliances and consumer electronics internal parts and housings; plaything

Performance, test conditions	Standard	unit	Typical value
Rheological property			
Melt volume flow rate,200 °C/5kg	GB/T3682.1	cm³/10min	4-6
Mechanical property			
Notched impact strength of simple supported beam,23°C	GB/T3682.1	KJ/m2	12
Simply supported beams have no notched impact strength,23°C	GB/T3682.1	KJ/m2	130
Tensile yield,23°C	GB/T3682.1	MPa	27
Elongation at tensile break,23°C	GB/T3682.1	%	30
Bending strength,23°C	GB/T9341	MPa	40
Bending modulus,23°C	GB/T9341	MPa	2000
Rockwell hardness□23°C	GB/T3398.2		85
Thermal properties			
Vica softening temperatureVST/B/50(50N,50 °C/h)		GB/T1633 °C	90
Thermal deformation temperatureB;(a n n e l 4h/80 °C;0.45MPa)	GB/T1634.1	°C	89
Electrical property			
Dielectric constant(100Hz)	GB/T31838.6	-	2.5
Consumption factor(1MHz)	GB/T31838.6	10 ⁻⁴	4
Insulation strength, short time,1.5mm	GB/T1408.1	kV/mm	155
Relative dielectric constant(100Hz)	GB/T31838.6	-	2.5
Relative dielectric constant(1MHz)	GB/T31838.6	-	2.5
Volume resistivity	GB/T31838.6	Ohm*m	>10 ¹⁶
Surface resistivity	GB/T31838.6	Ohm	>10 ¹³
Optical property			
glossiness,60°C	-		35
processability			
Molding shrinkage	GB/T17037	%	0.4-0.7
Melt temperature range	GB/T17037	°C	180-260
Mold temperature range	GB/T17037	°C	10-60
Injection molding speed	GB/T17037	mm/s	200
Other properties			
density	GB/T1033	Kg/m³	1043

Typical values for uncolored products

Please note that all processing values above are indicative only and may vary depending on the complexity of the individual processing. For more information, please contact our local sales or technical representative.

Reserve mode

GON825 is supplied in cylindrical pellets. It must be kept in its original packaging and stored in a dry, cool place . Avoid direct exposure to sunlight. GON825 can also be stored in silos.

process

GON825 can be used in any method suitable for polystyrene plastic processing and is best suited for injection molding and extrusion. The recommended processing temperature is between 180 and 280 ° C, and the mold temperature is between 10 and 60 ° C. The extrusion melt temperature should not exceed 260°C.

disclaimer

The above data is accurate. These data are based on trusted laboratory and industry standard testing methods. These are typical values, and actual product specifications may vary from industry to industry. Therefore, none of the data in this technical data sheet constitutes a guarantee or representation as to the characteristics of the product , its suitability for a particular purpose or application, or its machinability. Zhejiang Yisu does not assume all responsibilities related to this. The customer must personally verify that the product is suitable for further processing or application and that the product complies with the relevant regulatory requirements. Unless otherwise expressly and separately agreed in writing, the sole and exclusive responsibility of the Company for its products is set forth in the general Terms and Conditions of Sale of the Company.

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