

GON825

技术参数表

高抗冲聚苯乙烯 (HIPS)

Technical Data Sheet

产品描述 Product Description

GON825 是一种中等流动性的高抗冲聚苯乙烯, 具有机械性能和耐热性能优异、易加工、成型周期短等特点。

GON825 is a medium flow and high impact HIPS grade. It gives excellent mechanical and heat resistance properties while providing with easy process-ability and short cycle time.

特点 FEATURES

- 中等流动性
Medium flow HIPS
- 良好的机械和耐热性能
Good mechanical and heat resistance properties
- 易于加工, 成型周期短
Easy process-ability with short cycle time
- 食品接触安全
Food contact compliant

应用 APPLICATIONS

- 广泛的注塑应用, 如:办公室、厨房和浴室用品
Wide range of injection molding applications, e.g.- office, kitchen and bathroom articles
- 食品包装, 挤出片材用于加工饮料杯、乳制品包装等
Extruded sheet for food packaging as beverage cups, ice cream boxes etc.
- 家用电器和消费电子产品的内部件和外壳、玩具等
Internal parts and housings of household appliances and consumer electronics, Toys

产品性能 Property	标准 Standard	测试条件 Test Condition	单位 Unit	典型值 Typical Value
流变性能 Rheological Properties				
熔体质量流动速率 Melt Mass Rate	GB/T 3682.1 ISO 1133	200 °C/5 kg	g/10 min	5.0
机械性能 Mechanical Properties				
简支梁缺口冲击强度 Charpy Impact Strength	GB/T 1043.1 ISO 179/1eA	2J, Notched	KJ/m ²	11
悬臂梁缺口冲击强度 IZOD Impact Strength	GB/T 1843 ISO 180/1U	2.75J, Notched	KJ/m ²	11
拉伸强度 Tensile Strength	GB/T 1040.2 ISO 527	50mm/min	MPa	27
拉伸断裂伸长率 Tensile Elongation	GB/T 1040.2 ISO 527	50mm/min	%	50
弯曲强度 Flexural Strength	GB/T 9341 ISO 178	2mm/min	MPa	42
弯曲模量 Flexural Modulus	GB/T 9341 ISO 178	2mm/min	MPa	2000
热学性能 Thermal Properties				
维卡软化温度 Vicat Softening Temperature	GB/T1633 ISO 306	B50 法, 50N, 50°C/h	°C	90
热变形温度 Heat Deflection Temperature	GB/T1634.1 ISO 75	0.45MPa, 120°C/h 未退火 Unannealed	°C	83



产品性能 Property	标准 Standard	测试条件 Test Condition	单位 Unit	典型值 Typical Value
电性能 Electrical Properties				
介电常数 Dielectric Permittivity	GB/T 31838.6 IEC 62631-2-1	100Hz	/	2.5
消耗因数 Dissipation Factor	GB/T 31838.6 IEC 62631-2-1	1MHz	10 ⁻⁴	4
绝缘强度 Dielectric Strength	GB/T1408.1 IEC 60243-1	短时 Short Time, 1.5 mm	kV/mm	155
相对介电常数 Relative Permittivity	GB/T 31838.6 IEC 62631-2-1	100Hz	/	2.5
相对介电常数 Relative Permittivity	GB/T 31838.6 IEC 62631-2-1	1MHz	/	2.5
体积电阻率 Volume Resistivity	GB/T 31838.2 IEC 62631-3-1	23°C	Ohm*m	>10 ¹⁶
表面电阻率 Surface Resistivity	GB/T 31838.3 IEC 62631-3-2	23°C	Ohm	>10 ¹³
其它性能 Other Properties				
密度 Density	GB/T1033 ISO 1183	23°C	Kg/m ³	1030
吸水率 Water absorption	GB/T 1034 ISO 62	23°C, 24h	%	0.1
燃烧性 Flammability	UL-94	Thickness 1.5mm All Color	/	HB
成型收缩率 Linear Mold Shrinkage	GB/T17037 ISO 294-4	23°C	%	0.4-0.7



加工参数	单位	典型值
Processing Parameters	Unit	Typical Value

预处理 (如果必要) Pre-treatment (If necessary)

烘干温度 Drying Temperature	°C	70-80
烘干时间 Drying Time	Hour	2-4
最大含水率 Maximum Moisture Content	%	0.1

通用指南 General Guidelines

熔体温度范围 Melt Temperature Range	°C	180-250
料筒温度 Barrel Temperature	前部 Front	°C 220-240
	中部 Middle	°C 210-230
	后部 Rear	°C 180-210
射嘴温度 Nozzle Temperature	°C	210-230
模具温度范围 Mold Temperature Range	°C	45-75

注意 Note:

- 1、上述所有数据仅为未着色产品的典型值，不同颜色之间可能略有差异。
Please note that all data stated are only Typical values for uncolored products, not specifications, and may vary slightly with different colors.
- 2、加工指南仅供参考，具体设置请遵循产品和机器条件，详情请咨询我们当地的销售或技术代表。
The general guidelines are only for reference. Exact settings have to follow the product and machine conditions. Please consult our local sales or technical representatives for details.
- 3、GON825 以圆柱形颗粒形式供应。它应保存在原始包装中，或存放在干燥、凉爽的地方，避免直接暴露在阳光下。
GON825 is supplied as cylindrical shaped granules. It has to be kept in its original containers in a dry, cool place. Avoid direct exposure to sunlight.

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