

GON825

高抗冲聚苯乙烯 (HIPS)

技术参数表

TECHNICAL DATASHEET

描述DESCRIPTION

GON825是一种中等流动性的高抗冲聚苯乙烯。它具有良好的机械和耐热性能，同时易于加工，成型周期短。

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

特点FEATURES

- 中等流动性 HIPS
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，例如：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，如饮料杯、乳制品包装等一次性用品
Food packaging as beverage cups, packaging for dairy products, sheets and disposables
- 家用电器和消费电子产品的内部零件和外壳
Internal parts and housings of household appliances and consumer electronics
- 玩具
Toys

性能，测试条件
Property, Test Condition

标准
Standard

单位
Unit

典型值
Value

性能，测试条件 Property, Test Condition	标准 Standard	单位 Unit	典型值 Value
流变性能Rheological Properties			
熔体质量流动速率, 200 °C/5 kg Melt Mass Rate, 200 °C/5 kg	GB/T 3682.1 ISO 1133	g/10 min	5
机械性能Mechanical Properties (23°C)			
简支梁缺口冲击强度 Charpy Notched Impact Strength,	GB/T 1043.1 ISO 179/1eA	KJ/m ²	11
拉伸屈服 Tensile Stress at Yield	GB/T 1040.2 ISO 527	MPa	27
拉伸断裂伸长率 Tensile Strain at Break	GB/T 1040.2 ISO 527	%	50
弯曲强度 Flexural Strength	GB/T 9341 ISO 178	MPa	44
弯曲模量 Flexural Modulus	GB/T 9341 ISO 178	MPa	1900
洛氏硬度 Rockwell Hardness	GB/T 3398.2 ISO 2039-2	/	85

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性能, 测试条件 Property, Test Condition	标准 Standard	单位 Unit	典型值 Value
热学性能Thermal Properties			
维卡软化温度 VST/B/50 (50N, 50 °C/h, 未退火) Vicat Softening Temperature VST/B/50 (50N, 50°C/h, unannealed)	GB/T1633 ISO 306	°C	90
热变形温度 B;(退火 4 h/80 °C; 0.45 MPa) Heat Deflection Temperature B;(annealed 4 h/80°C; 0.45 MPa)	GB/T1634.1 ISO 75	°C	89
电性能Electrical Properties			
介电常数 (100Hz) Dielectric Constant (100Hz)	GB/T 31838.6 IEC 62631-2-1	/	2.5
消耗因数 (1 MHz) Dissipation Factor (1 MHz)	GB/T 31838.6 IEC 62631-2-1	10 ⁻⁴	4
绝缘强度, 短时, 1.5 mm Dielectric Strength, Short Time, 1.5 mm	GB/T1408.1 IEC 60243-1	kV/mm	155
相对介电常数 (100 Hz) Relative Permittivity (100 Hz)	GB/T 31838.6 IEC 62631-2-1	/	2.5
相对介电常数 (1 MHz) Relative Permittivity (1 MHz)	GB/T 31838.6 IEC 62631-2-1	/	2.5
体积电阻率 Volume Resistivity	GB/T 31838.6 IEC 62631-3-1	Ohm*m	>10 ¹⁶
表面电阻率 Surface Resistivity	GB/T 31838.6 IEC 62631-3-1	Ohm	>10 ¹³
其它性能Other Properties			
密度 Density	GB/T1033 ISO 1183	Kg/m ³	1030

未着色产品的典型数值

请注意, 上述所有加工数值仅为参考性数据, 可能会因个别处理的复杂程度而有所不同。详情请咨询我们当地的销售或技术代表。
 Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.
 Please consult our local sales or technical representatives for details.

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加工性能Processing			
成型收缩率 Linear Mold Shrinkage		GB/T17037 ISO 294-4	% 0.4-0.7
熔体温度范围 Melt Temperature Range		GB/T17037 ISO 294	°C 180-250
料筒温度 Cylinder Temperature	前部Front	GB/T17037 ISO 294	°C 220-240
	中部Middle	GB/T17037 ISO 294	°C 210-230
	后部Rear	GB/T17037 ISO 294	°C 180-210
射嘴温度 Nozzle Temperature		GB/T17037 ISO 294	°C 220-230
模具温度范围 Mold Temperature Range		GB/T17037 ISO 294	°C 50-75
注塑速度 Injection Velocity		GB/T17037 ISO 294	mm/s 200

贮备方式SUPPLY FORM

GON825 以圆柱形颗粒形式供应。它必须保存在原始包装中，存放在干燥、凉爽的地方。避免直接暴露在阳光下。

GON825 也可储存在料仓中。

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. GON825 can also be stored in silos.

免责声明DISCLAIMER

以上数据是准确的。这些数据是基于值得信赖的实验室和行业标准测试方法。这些只是典型值，实际产品规格可能会在工业范围有所偏差。因此，本技术数据表中的任何数据都不构成关于产品特性、产品对特定用途或应用的适用性或其可加工性的保证或陈述。国恩不承担与此有关的一切责任。顾客必须亲自验证产品是否适合进一步的加工或应用，以及产品是否符合相关的法规要求。除非另有明确的单独的书面协议，否则国恩对其产品的唯一和排他性责任在国恩的一般销售条款和条件中规定。

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