

# GON525

通用级聚苯乙烯 (GPPS)

技术参数表

TECHNICAL DATASHEET

## 描述DESCRIPTION

GON525 是一种高度透明的 GPPS，具有机械性能和耐热性能优异、易加工、成型周期短等特点。

GON525 is a highly transparent GPPS grade. It gives excellent mechanical and heat resistance properties while providing with easy process-ability and short cycle time.

## 特点FEATURES

- 优异透明性  
Excellent clarity
- 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

- 透明冰箱注塑件，如水果蔬菜盒、挡板、托盘等  
Transparent parts for refrigerators such as fruit and vegetable crispers, chillers, flaps, trays etc
- 食品包装，厨房容器  
Food packaging , Kitchen containers
- 物理或化学发泡高品质物品的理想材料，如泡沫容器、标签、型材 (PSP/XPS)  
Ideal material for physically or chemically foamed high-quality foamed articles, such as foam containers, labels or profiles (PSP/XPS)
- 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<br>Property, Test Condition                  | 标准<br>Standard             | 单位<br>Unit        | 典型值<br>Value |
|--|----------------------------|-------------------|--------------|
| <b>流变性能Rheological Properties</b>                    |                            |                   |              |
| 熔体质量流动速率, 200 °C/5 kg<br>Melt Mass Rate, 200 °C/5 kg | GB/T 3682.1<br>ISO 1133    | g/10 min          | 8            |
| <b>机械性能Mechanical Properties (23°C)</b>              |                            |                   |              |
| 简支梁无缺口冲击强度<br>Charpy Unnotched Impact Strength       | GB/T 1043.1<br>ISO 179/1eA | KJ/m <sup>2</sup> | 8            |
| 拉伸屈服<br>Tensile Stress at Yield                      | GB/T 1040.2<br>ISO 527     | MPa               | 46           |
| 拉伸断裂伸长率<br>Tensile Strain at Break                   | GB/T 1040.2<br>ISO 527     | %                 | 2            |
| 弯曲强度<br>Flexural Strength                            | GB/T 9341<br>ISO 178       | MPa               | 75           |
| 弯曲模量<br>Flexural Modulus                             | GB/T 9341<br>ISO 178       | MPa               | 3000         |

Contact us:

Tel/Whatsapp/Wechat:+86 18765155293

E-mail: william@gonplastics.com

Web:www.gonplastics.com

Add:Qingdao city, Shandone Province

1

修订日期: 2024.09.12

## GON525

通用级聚苯乙烯 (GPPS)

## 技术参数表

### TECHNICAL DATASHEET

| 性能, 测试条件<br>Property, Test Condition  | 标准<br>Standard                | 单位<br>Unit        | 典型值<br>Value      |
|---|-------------------------------|-------------------|-------------------|
| <b>热学性能Thermal Properties</b>   |                               |                   |                   |
| 维卡软化温度 VST/B/50 (50N, 50 °C/h, 未退火)<br>Vicat Softening Temperature VST/B/50 (50N, 50°C/h, unannealed) | GB/T1633<br>ISO 306           | °C                | 92                |
| 热变形温度 B;(退火 4 h/80 °C; 0.45 MPa)<br>Heat Deflection Temperature B;(annealed 4 h/80°C; 0.45 MPa)       | GB/T1634.1<br>ISO 75          | °C                | 93                |
| <b>电性能Electrical Properties</b>   |                               |                   |                   |
| 绝缘强度, 短时, 1.5 mm<br>Dielectric Strength, Short Time, 1.5 mm   | GB/T1408.1<br>IEC 60243-1     | kV/mm             | 135               |
| 相对介电常数 (100 Hz)<br>Relative Permittivity (100 Hz)   | GB/T 31838.6<br>IEC 62631-2-1 | /                 | 2.5               |
| 相对介电常数 (1 MHz)<br>Relative Permittivity (1 MHz)   | GB/T 31838.6<br>IEC 62631-2-1 | /                 | 2.5               |
| 体积电阻率<br>Volume Resistivity   | GB/T 31838.6<br>IEC 62631-3-1 | Ohm*m             | >10 <sup>16</sup> |
| 表面电阻率<br>Surface Resistivity  | GB/T 31838.6<br>IEC 62631-3-1 | Ohm               | >10 <sup>14</sup> |
| <b>光学性能Optical Properties</b>   |                               |                   |                   |
| 雾度<br>Haze  | GB/T 2410-2008<br>ASTM D 1003 | %                 | 0.3               |
| 透光率<br>Light Transmittance  | GB/T 2410-2008<br>ASTM D 1003 | %                 | 90                |
| <b>其它性能Other Properties</b>   |                               |                   |                   |
| 密度<br>Density   | GB/T1033<br>ISO 1183          | Kg/m <sup>3</sup> | 1030              |

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.

Contact us:

Tel/Whatsapp/Wechat:+86 18765155293

E-mail: william@gonplastics.com

Web:www.gonplastics.com

Add:Qingdao city, Shandone Province

## GON525

通用级聚苯乙烯 (GPPS)

技术参数表

| 加工性能Processing                   |          |                        |            |
|----------------------------------|----------|------------------------|------------|
| 成型收缩率<br>Linear Mold Shrinkage   |          | GB/T17037<br>ISO 294-4 | % 0.4-0.7  |
| 熔体温度范围<br>Melt Temperature Range |          | GB/T17037<br>ISO 294   | °C 180-260 |
| 料筒温度<br>Cylinder Temperature     | 前部Front  | GB/T17037<br>ISO 294   | °C 220-240 |
|                                  | 中部Middle | GB/T17037<br>ISO 294   | °C 210-235 |
|                                  | 后部Rear   | GB/T17037<br>ISO 294   | °C 190-210 |
| 射嘴温度<br>Nozzle Temperature       |          | GB/T17037<br>ISO 294   | °C 220-230 |
| 模具温度范围<br>Mold Temperature Range |          | GB/T17037<br>ISO 294   | °C 50-75   |
| 注塑速度<br>Injection Velocity       |          | GB/T17037<br>ISO 294   | mm/s 200   |

Contact us:

Tel/Whatsapp/Wechat:+86 18765155293

E-mail: william@gonplastics.com

Web:www.gonplastics.com

Add:Qingdao city, Shandone Province

### 贮备方式SUPPLY FORM

GON525 以圆柱形颗粒形式供应。它应保存在原始包装中,存放在干燥凉爽的地方。避免直接暴露在阳光下。GON525 也可储存在料仓中。

GON525 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. GON525 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。

The data mentioned above are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual products specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its process-ability. GON plastics dislaims all liability in connection therewith. The customer himself is required to verify whether the product is suitable for the further processing or application intended and whether the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, GON plastics sole and exclusiveliability with respect to its products is set forth in GON plastics General Terms and Conditions for Sale.

Contact us:

Tel/Whatsapp/Wechat:+86 18765155293

E-mail: william@gonplastics.com

Web:www.gonplastics.com

Add:Qingdao city, Shandone Province

修订日期: 2024.09.12