

# GON535M

通用级聚苯乙烯 (GPPS)

技术参数表

TECHNICAL DATASHEET

## 描述DESCRIPTION

GON535M 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。

GON535M 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

- 冰箱的透明件，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.
- 在水过滤器容器、钢笔部件等多个应用中替换 SAN 和 PMMA  
Replacement of SAN and PMMA in several application like water filter containers, pen parts etc.
- 家用电器，如透明器皿、厨房用具等  
Household applications such as crystal-ware, kitchen containers etc

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
<b>流变性能Rheological Properties</b>			
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	2.7
<b>机械性能Mechanical Properties (23°C)</b>			
简支梁无缺口冲击强度 Charpy Unnotched Impact Strength	GB/T 1043.1 ISO 179/1eA	KJ/m <sup>2</sup>	12
拉伸屈服 Tensile Stress at Yield	GB/T 1040.2 ISO 527	MPa	50
拉伸断裂伸长率 Tensile Strain at Break	GB/T 1040.2 ISO 527	%	2
弯曲强度 Flexural Strength	GB/T 9341 ISO 178	MPa	85
弯曲模量 Flexural Modulus	GB/T 9341 ISO 178	MPa	3100

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1

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性能, 测试条件 Property, Test Condition	标准 Standard	单位 Unit	典型值 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) 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	96
<b>电性能Electrical Properties</b>			
绝缘强度, 短时, 1.5 mm Dielectric Strength, Short Time, 1.5 mm	GB/T1408.1 IEC 60243-1	kV/mm	135
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 <sup>16</sup>
表面电阻率 Surface Resistivity	GB/T 31838.6 IEC 62631-3-1	Ohm	>10 <sup>14</sup>
<b>光学性能Optical Properties</b>			
雾度 Haze	GB/T 2410-2008 ASTM D 1003	%	0.3
透光率 Light Transmittance	GB/T 2410-2008 ASTM D 1003	%	90
<b>其它性能Other Properties</b>			
密度 Density	GB/T1033 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.

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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 180-260
料筒温度 Cylinder Temperature	前部Front	GB/T17037 ISO 294	°C 220-240
	中部Middle	GB/T17037 ISO 294	°C 210-235
	后部Rear	GB/T17037 ISO 294	°C 190-210
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**

GON535M 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。

GON535M 也可储存在料仓中。

GON535M 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. GON535M can also be stored in silos.

**免责声明DISCLAIMER**

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