

GON535N

通用级聚苯乙烯 (GPPS)

技术参数表**TECHNICAL DATA SHEET****描述DESCRIPTION**

GON535N 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。

GON535N 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

- 扩散板、导光板
LDP, Light diffuse plate and LGP, Light guide plate.
- 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.
- 透明片材，用于展示柜、消费电子产品、家用电器、相框、建筑材料)
Transparent sheet for Show cases & displays, consumer electronics, Household application, photo frames, building material etc.

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 kgGB/T 3682.1
ISO 1133

g/10 min

2.7

机械性能Mechanical Properties (23°C)简支梁无缺口冲击强度
Charpy Unnotched Impact StrengthGB/T 1043.1
ISO 179/1eAKJ/m²

12

拉伸屈服
Tensile Stress at YieldGB/T 1040.2
ISO 527

MPa

55

拉伸断裂伸长率
Tensile Strain at BreakGB/T 1040.2
ISO 527

%

2

弯曲强度
Flexural StrengthGB/T 9341
ISO 178

MPa

85

弯曲模量
Flexural ModulusGB/T 9341
ISO 178

MPa

3000

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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	100
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	98
电性能Electrical Properties			
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 ¹⁶
表面电阻率 Surface Resistivity	GB/T 31838.6 IEC 62631-3-1	Ohm	>10 ¹⁴
光学性能Optical Properties			
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
其它性能Other Properties			
密度 Density	GB/T1033 ISO 1183	Kg/m ³	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	℃	180-260
料筒温度 Cylinder Temperature	前部Front	GB/T17037 ISO 294	℃	220-240
	中部Middle	GB/T17037 ISO 294	℃	210-235
	后部Rear	GB/T17037 ISO 294	℃	190-210
机头温度 Extruder Head Temperature		GB/T17037 ISO 294	℃	220-230
辊温范围 Roller Temperature Range		GB/T17037 ISO 294	℃	70-110

贮备方式SUPPLY FORM

GON535N 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。
GON535N 也可储存在料仓中。

GON535N 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. GON535N 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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