

GON535N

技术参数表

通用级聚苯乙烯 (GPPS)

Technical Data Sheet

产品描述 Product 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
Light diffuse plate(LDP) and Light guide plate(LGP)
- 透明片材，用于展示柜、消费电子产品、家用电器、相框
Transparent sheet for Show cases & displays, consumer electronics, Household application, photo frames etc.
- 物理或化学发泡材料，如泡沫容器、标签、型材(PSP/XPS)
Ideal material for physically or chemically foamed foamed such as foam containers, labels or profiles (PSP/XPS)

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	2.5
机械性能 Mechanical Properties				
简支梁无缺口冲击强度 Charpy Impact Strength	GB/T 1043.1 ISO 179/1eA	2J, Unnotched	KJ/m ²	20
拉伸强度 Tensile Strength	GB/T 1040.2 ISO 527	50mm/min	MPa	55
拉伸断裂伸长率 Tensile Elongation	GB/T 1040.2 ISO 527	50mm/min	%	4
弯曲强度 Flexural Strength	GB/T 9341 ISO 178	2mm/min	MPa	95
弯曲模量 Flexural Modulus	GB/T 9341 ISO 178	2mm/min	MPa	3000
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	100
热变形温度 Heat Deflection Temperature	GB/T1634.1 ISO 75	0.45MPa, 120°C/h 未退火 Unannealed	°C	92

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				
绝缘强度 Dielectric Strength	GB/T1408.1 IEC 60243-1	短时 Short Time, 1.5 mm	g/10 min	135
相对介电常数 Relative Permittivity	GB/T 31838.6 IEC 62631-2-1	100Hz	kV/mm	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 ¹⁴
光学性能 Optical Properties				
透光率 Light Transmittance	GB/T 2410-2008 ASTM D 1003	23°C	%	90
雾度 Haze	GB/T 2410-2008 ASTM D 1003	23°C	%	0.3
其它性能 Other Properties				
密度 Density	GB/T1033 ISO 1183	23°C	Kg/m ³	1040
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 Processing Parameters		单位 Unit	典型值 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	180-260
料筒温度 Barrel Temperature	前部 Front	°C	220-240
	中部 Middle	°C	210-235
	后部 Rear	°C	190-210
机头温度 Extruder Head Temperature		°C	220-245
辊温范围 Roller Temperature Range		°C	70-110

注意 Note:

- 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.
- 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.
- GON535N 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。
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.

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