

GON525

技术参数表

通用级聚苯乙烯 (GPPS)

Technical Data Sheet

产品描述 Product 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)
- 玩具
Toys

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	8.0
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	11
拉伸强度 Tensile Strength	GB/T 1040.2 ISO 527	50mm/min	MPa	45
拉伸断裂伸长率 Tensile Elongation	GB/T 1040.2 ISO 527	50mm/min	%	3
弯曲强度 Flexural Strength	GB/T 9341 ISO 178	2mm/min	MPa	78
弯曲模量 Flexural Modulus	GB/T 9341 ISO 178	2mm/min	MPa	2700
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	92
热变形温度 Heat Deflection Temperature	GB/T1634.1 ISO 75	0.45MPa, 120°C/h 未退火 Unannealed	°C	84

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	1.030
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	单位	典型值
Processing Parameters	Unit	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
射嘴温度 Nozzle Temperature	°C	220-230
模具温度范围 Mold Temperature Range	°C	45-75

注意 Note:

- 1、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.
- 2、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.
- 3、GON525 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。
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.

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