

PPS-SGM651L60

Polyphenylene Sulfide Resins

产品描述

Description:

Sciengy® PPS-SGM651L60 是一种 60%玻璃纤维和矿物增强的线性低氯聚苯硫醚改性材料,CL 含量小于 900PPM,具备高模量,低形变,卓越的机械性能和绝缘性能,主要应用于无卤要求的产品领域。

PPS-SGM651L60 is a 60% glass fiber and mineral reinforced low chlorine polyphenylene sulfide compound, its CL content is in 900PPM below,developed to provide high modulus, low warp, excellent mechanical and electrical performance mainly used in the field of halogen free requirements.

物理性能 Physical Properties	单位 Units	检测标准 Test Standard	典型值 Value
密度 Density	g/cm ³	ISO 1183	1.90
成型收缩率 - 平行 Mold shrinkage(Machine Direction)	%	GB/T 15585	0.2
成型收缩率 - 垂直 Mold shrinkage(Transverse Direction)	%	GB/T 15585	0.6
吸水率 (23°C-sat) Water absorption (23°C-sat)	%	ISO 62	0.02
机械性能 Mechanical Properties	单位 Units	检测标准 Test Standard	典型值 Value
拉伸强度 Tensile stress at break(5mm/min)	MPa	ISO 527	160
拉伸模量 Tensile modulus at break (1mm/min)	GPa	ISO 527	19
断裂伸长率 Elongation at break (23°C)	%	ISO 527	1.5
弯曲模量 Flexural Modulus at break (23°C)	GPa	ISO 178	19.5
弯曲强度 Flexural Strength at break	MPa	ISO178	250
缺口冲击强度 Charpy Impact Strength@23°C (V-notched)	kJ/m ²	ISO 179	8.0
无缺口冲击强度 Unnotched Charpy Impact Strength@23°C	kJ/m ²	ISO 179	40
热性能 Thermal Properties	单位 Units	检测标准 Test Standard	典型值 Value
熔化温度(10°C/min) Melting temperature (10°C/min)	°C	ISO 11357	280
热变形温度 Heat Deflection Tem p High Load (1.8MPa)	°C	ISO 75	265
线性膨胀系数 Coeff.of Linear Them.expansion(parallel)	E-4/°C	ISO 11359-2	0.25

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线性膨胀系数			
Coeff.of Linear Them.expansion((normal)	E-4/°C	ISO 11359-2	0.35
阻燃性.			
Flammability (0.3mm)	class	UL-94	V-0
阻燃性.			
Flammability (3.0mm)	class	UL-94	V-0
电性能	单位	检测标准	典型值\
Electrical properties	Units	Test Standard	Value
介电强度			
Dielectric Strength	KV/mm	IEC 60243	16
介电常数			
Relative Permittivity(4GHZ)		IEC 60250	5.0
损耗系数			
Dissipation Factor(4GHZ)		IEC 60250	0.003
体积电阻率			
Volume resistivity	Ω·cm	IEC 60093	10 ¹⁵
表面电阻率			
Surface resistivity	Ω·cm	IEC 60093	10 ¹⁵
漏电起痕指数			
CTI	V	IEC 60112	>200
注塑条件	单位	检测标准	典型值
Injection Processing	Units	Test Standard	Value
预干燥			
Drying Temp./Time			150°C&3h
注射压力			
Injection Pressure	MPa		30~100
注塑成型熔体温度			
Injection Molding Melt Temp.	°C	ISO 294	290~330
注塑成型模具温度			
Injection Molding Mold Temp.	°C	ISO 294	120~160
筒内极限驻留时间			
Limit in-cylinder retention time			300°C/60min 320°C/30min

免责声明

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