

## PPS-SG401LM45

Polyphenylene Sulfide Resins

### 产品描述

#### Description:

PPS-SG401LF45 是一种 45%玻璃矿物复合的低氯线性聚苯硫醚改性材料, CL 含量在 900PPM 以下, 主要应用在无卤需求领域。

PPS-SG401LM45 is a low chlorine polyphenylene sulfide compound reinforced and filled with 45% glass fiber and mineral, its CL content is in 900PPM below, mainly used in the field of low halogen content requirements.

物理性能	单位	检测标准	典型值
Physical Properties	Units	Test Standard	Value
密度	g/cm <sup>3</sup>	ISO 1183	1.70
<b>Density</b>			
成型收缩率 - 平行	%	GB/T 15585	0.30
<b>Mold shrinkage(Machine Direction)</b>			
成型收缩率 - 垂直	%	GB/T 15585	0.65
<b>Mold shrinkage(Transverse Direction)</b>			
吸水率 (23°C-sat)	%	ISO 62	0.02
<b>Water absorption (23°C-sat)</b>			
机械性能	单位	检测标准	典型值
Mechanical Properties	Units	Test Standard	Value
拉伸强度	MPa	ISO 527	180
<b>Tensile stress at break(5mm/min)</b>			
拉伸模量	Gpa	ISO 527	14
<b>Tensile modulus at break (1mm/min)</b>			
断裂伸长率	%	ISO 527	1.7
<b>Elongation at break (23°C)</b>			
弯曲模量	GPa	ISO 178	15
<b>Flexural Modulus at break (23°C)</b>			
弯曲强度	MPa	ISO178	260
<b>Flexural Strength at break</b>			
缺口冲击强度	kJ/m <sup>2</sup>	ISO 179	9.0
<b>Charpy Impact Strength@23°C (V-notched)</b>			
缺口冲击强度	kJ/m <sup>2</sup>	ISO 179	9.0
<b>Charpy Impact Strength@-30°C (V-notched)</b>			
无缺口冲击强度	kJ/m <sup>2</sup>	ISO 179	50
<b>Unnotched Charpy Impact Strength@23°C</b>			
热性能	单位	检测标准	典型值
Thermal Properties	Units	Test Standard	Value
熔化温度(10°C/min)	°C	ISO 11357	280
<b>Melting temperature (10°C/min)</b>			
热变形温度	°C	ISO 75	265
<b>Heat Deflection Tem p High Load (1.8MPa)</b>			
线性膨胀系数	E-4/°C	ISO 11359-2	0.30
<b>Coeff.of Linear Them.expansion(parallel)</b>			

# 山东赛恩吉新材料有限公司

Shandong Sciengy New Materials Co., Ltd

中国-山东-滨州高新区高十三路 511 号

No.511,Road Gao Shi San,High-tech industrial Development Zone,Binzhou

Tel:86-543-5020651 Fax:86-543-5020886

Email:sales@sciengy.com

www.sciengy.com



线性膨胀系数			
Coeff.of Linear Them.expansion((normal)	E-4/°C	ISO 11359-2	0.45
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	4.0
损耗系数			
Dissipation Factor(4GHZ)		IEC 60250	0.004
体积电阻率			
Volume resistivity	Ω·cm	IEC 60093	10 <sup>15</sup>
表面电阻率			
Surface resistivity	Ω·cm	IEC 60093	10 <sup>15</sup>
漏电起痕指数			
CTI	V	IEC 60112	> 155
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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