



Product Information 产品信息

Paryls® mPPSU M1150(PPSU/PSU blends)

Latest Revision: Feb. 24th, 2021

物理形态和储存 Physical form and storage

Paryls® mPPSU M1150BK 颗粒以 25kg 内衬铝箔袋包装，可以无限期的保存在无破损的纸箱包装袋中。

Paryls® mPPSU M1150 pellets are supplied in aluminum foil bags, which can be stored indefinitely, provided the packaging remains undamaged.

Paryls® mPPSU M1150 吸水很快，因此材料在加工前至少需在 160℃ 真空烘箱或除湿式干燥机中干燥 6 小时。

Paryls® mPPSU M1150 pellets absorb moisture very rapidly. Therefore, the pellets need to be dried at least 6h at 160 °C in a vacuum or dry air drier prior to processing.

产品特点 Products Features

Paryls® mPPSU 是一种耐高温、高性能改性聚苯砜树脂复合材料，具有卓越的水解稳定性、优异的耐酸碱性，在各种化学环境下杰出的耐应力开裂性。此外，还具有极好的韧性，尽快耐开裂性逊于 Paryls®聚苯砜(PPSU)，但好于 Paryls®聚砜(PSU)及 Paryls®聚醚砜(PES)，总体性能介于聚砜与聚苯砜之间，且在很宽的温度范围内，均具有出色的电气特性和固有的阻燃性，并具有更好的性价比优势。

- 本色(Natural): mPPSU M1150NC, 黑色(Black): mPPSU M1150BK, 白色(White): mPPSU M1150WH

Paryls® mPPSU is a modified polyphenylsulfone. It is a high-heat, high performance resin formulation exhibiting very good hydrolytic stability, excellent resistance to acids and bases and good resistance to stress cracking under a broad range of chemical environments. In addition, Paryls® mPPSU resin exhibits robust toughness and improved notch resistance compared to both Paryls® PSU and Paryls® PES, although slightly lower than that of neat Paryls® PPSU.

In general, the performance profile of Paryls® mPPSU resin falls between PSU and PPSU, and also offers very good electrical properties over a broad temperature range as well as inherent flam retardancy, offers better cost-efficiency advantage also.

注 Note

本资料内容基于我司目前掌握的知识和经验。由于存在诸多因素可能影响我们产品的应用和加工，因此本公司不排除用户进行试验研究的必要。本资料也不保证具体应用的适应性或某些性能的可靠性。这里的任何描述、图纸、照片、数据、大小、重量等可能不事先通知而更改，但不包括已经达成一致的合同。

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product.



未着色产品的典型值，在 23℃下 Typical values for uncolored product at 23℃	测试方法 Test method	单位 Unit	典型值 Typical Values	
机械性能 Mechanical Properties				
拉伸强度 Tensile Strength	ISO 527-1/-2	MPa	75	
拉伸模量 Tensile Modulus	ISO 527-1/-2	MPa	2690	
屈服伸长率 Tensile Elongation(Yield)	ISO 527-1/-2	%	7.0	
弯曲强度 Flexural Strength	ISO 178	MPa	105	
弯曲模量 Flexural Modulus	ISO 178	MPa	2760	
缺口冲击强度 Notched Izod Impact	ISO 180/A	KJ/m ²	10.0	
热性能 Thermal Properties				
热变形温度 HDT/A @1.8MPa Heat Deflection Temperature	ISO 75-1/-2	℃	185	
电性能 Electrical Properties				
体积电阻率 100V Volume Resistivity	IEC 60093	Ω · m	> 1E13	
表面电阻率 100V Surface Resistivity		Ω	> 1E15	
相对介电常数 Dielectric Constant	@100HZ @1MHZ	IEC 60250	-	3.8
			-	3.7
介电损耗因子 Dissipation factor	@100HZ @1MHZ	IEC 60250	E-4	15
			E-4	86
介电强度 Dielectric Strength	ASTM D149	KV/mm	44	
一般及加工性能 General Properties and Processability				
密度 Density	ISO1183	g/cm ³	1.28	
吸水率@23℃/50%相对湿度 Water Absorption	ISO62	%	0.3	
模塑收缩率（平行）Mold shrinkage(Flow)	ISO 2577, 294-4	-	0.9	
模塑收缩率（垂直）Mold shrinkage (Vertical)	ISO 2577, 294-4	-	1.0	
熔融指数 MFR @380℃/2.16kg	ISO 1133	g/10min	9-15	
熔体温度范围，注塑/挤出成型 Processing (Melt)Temp, Injection/Extrusion	-	℃	350-390	
模具温度范围，注塑/挤出成型 Mold Temp, Injection/Extrusion	-	℃	140-160	

备注 Notes:

典型值 Typical values: 此典型值不应被解释为技术规范 These are not to be construed as specifications.