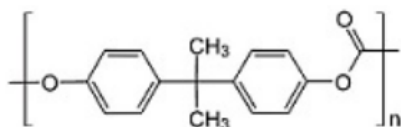


TECHNICAL DATA SHEET

1. General Description

Product name: POLYCARBONATE

Molecular formula: $(C_{15}H_{16}O_2 \cdot CH_2O_3)_x$ 

Structure:

CAS No.: 25037-45-0

2. Data Sheet

性能指标	检测标准	检测条件	单位	LXTY1609T-11
Properties	Standards	Test methods	Unit	
分子量 Molecular weight	/	GPC 绝对分子量	/	26000
		GPC absolute molecular weight		
物理性质				
Physical properties				
熔融指数 MFR	ISO 1133	300℃， 1.2kg	g/10min	9.0
比重 Specific gravity	ISO 1183	/	g/cm ³	1.2
吸水率 Water absorption	ISO 62	23℃， 24h	%	0.2
成型收缩率 Mold shrinkage	ISO 294	2mm， 流向	%	0.5-0.7
		2mm, along flow direction		
机械性能				
Mechanical properties				
拉伸屈服强度 Yield strength	ISO 527	50mm/min	MPa	60
拉伸断裂强度	ISO 527	50mm/min	MPa	70
Tensile strength at break				
断裂伸长率 Strain at Break	ISO 527	50mm/min	%	>120
拉伸模量 Tensile modulus	ISO 527	1mm/min	MPa	2400
弯曲强度 Flexural strength	ISO 178	2mm/min	MPa	90
弯曲模量 Flexural modulus	ISO 178	2mm/min	MPa	2300
简支梁缺口冲击强度	ISO 179	23℃	kJ/m ²	72
Charpy notched impact strength				



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悬臂梁缺口冲击强度	ISO 180	23℃	kJ/m ²	66
Izod notched impact strength				
热性能				
Thermal properties				
热变形温度 Temperature of deflection under load	ISO 75	1.80MPa, 未退火, 4.0mm	℃	127
		1.80MP, unannealed, 4.0mm		
维卡软化温度 Vicat softening temperature	ISO 306	B120, 未退火, 4.0mm	℃	148
		B120, unannealed, 4.0mm		
光性能				
Optical properties				
透光率 Luminous transmittance	ASTM D1003	3.2mm	%	89.0
雾度 Haze	ASTM D1003	3.2mm	%	<0.5
黄色指数 Yellowness index	ISO 17223	380-780nm	/	<1.4
电性能				
Electrical properties				
体积电阻系数 Volume resistivity	IEC 60093	5min	Ωcm	3.0×10 ¹⁷
介电常数 Dielectric constant	IEC 60250	1MHz	/	2.7
介电强度 Dielectric strength	IEC 60243	1mm	kV/mm	30
介质损耗因数	IEC 60250	1MHz	/	1.5×10 ⁻²
Dielectric dissipation factor				
其它				
Others				
燃烧性能 Flammability	UL94	1.5mm	/	V-2
说明：以上数据为对应牌号产品典型数值，供客户产品选择参考，实际值以收到产品的检验报告为准。				
Disclaimer: The above figures are typical values for the corresponding series of product, served as reference for customer's products selection, and the actual values are subject to COA of the product.				

3. Risk information

Dangerous information: Combustible solid

Precautionary statement: Firefighters shall wear gas masks, helmets, fireproof clothes, gloves and rubber boots to prevent the inhalation of toxic, irritant gases and fumes of thermal decomposition.

Precautions: No special requirements.

Incident response: leaking fire, use alcohol resistant foam, carbon dioxide, dry powder or sand to extinguish fire.



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Secure storage: avoid sunshine, stored in a well-ventilated and cool place, avoid temperature above 250 degrees centigrade.

4. Packaging:

25kg/bag

5. Storage note:

No fire within the scope of the storage, avoid the temperature reached above 250 degrees centigrade. Place in the shade.

6. Transportation note:

Transport and store as general goods

7. Product image:

