

Technical Data

Product Description

Unreinforced Polybutylene Terephthalate

General

Material Status	• 已商用：当前有效		
资料 ¹	• Processing - Blow Molding (English) • Processing - Gas Injection Molding (English) • Processing - Injection Molding (English)		
搜索 UL 黄卡	• DuPont Performance Polymers • Crastin®		
Availability	• 北美洲 • 非洲和中东	• 拉丁美洲 • 欧洲	• 亚太地区
RoHS Compliance	• 联系制造商		
Forms	• 粒子		
Processing Method	• 注射成型		
Part Marking Code (ISO 11469)	• PBT		
Resin ID (ISO 1043)	• PBT		

Physical	额定值	单位制	测试方法
Density	1.31 g/cm ³		ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	33 g/10 min		ISO 1133
Molding Shrinkage			ISO 294-4
横向流量	1.6 %		
流量	1.6 %		
Water Absorption			ISO 62
饱和, 23°C, 2.00 mm	0.40 %		
平衡, 23°C, 2.00 mm, 50% RH	0.20 %		
Mechanical	额定值	单位制	测试方法
Tensile Modulus	2400 MPa		ISO 527-2
Tensile Stress (屈服)	55.0 MPa		ISO 527-2
Tensile Strain (屈服)	4.0 %		ISO 527-2
Nominal Tensile Strain at Break	30 %		ISO 527-2
Tensile Creep Modulus ³			ISO 899-1
1 hr	2600 MPa		
1000 hr	1800 MPa		
Poisson's Ratio	0.38		ISO 527
Impact	额定值	单位制	测试方法
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0 kJ/m ²		
23°C	4.0 kJ/m ²		
Charpy Unnotched Impact Strength (23°C)	无断裂		ISO 179/1eU
Thermal	额定值	单位制	测试方法
Heat Deflection Temperature			
0.45 MPa, 未退火	115 °C		ISO 75-2/B
0.45 MPa, 退火	180 °C		ISO 75-2/B
1.8 MPa, 未退火	50.0 °C		ISO 75-2/A
1.8 MPa, 退火	60.0 °C		ISO 75-2/A
Glass Transition Temperature ⁴	55.0 °C		ISO 11357-2
Melting Temperature ⁴	225 °C		ISO 11357-3
CLTE			ISO 11359-2
流动	1.1E-4 cm/cm/°C		
横向	1.2E-4 cm/cm/°C		



Electrical	额定值 单位制	测试方法
Surface Resistivity	1.0E+12 ohms	IEC 62631-3-2
Volume Resistivity	> 1.0E+13 ohms·m	IEC 62631-3-1
Electric Strength	26 kV/mm	IEC 60243-1
Dissipation Factor		IEC 62631-2-1
100 Hz	2.0E-3	
1 MHz	0.020	
Flammability	额定值 单位制	测试方法
Flammability Classification (1.5 mm)	HB	IEC 60695-11-10, -20
Oxygen Index	22 %	ISO 4589-2
Fill Analysis	额定值 单位制	
Melt Density	1.11 g/cm³	
Ejection Temperature	170 °C	
Specific Heat Capacity of Melt	2110 J/kg/°C	
Thermal Conductivity of Melt	0.21 W/m/K	
Injection	额定值 单位制	
Drying Temperature	120 °C	
Drying Time - 热风干燥机	2.0 到 4.0 hr	
Suggested Max Moisture	0.040 %	
Processing (Melt) Temp	240 到 260 °C	
Melt Temperature, Optimum	250 °C	
Mold Temperature	30 到 130 °C	
Mold Temperature, Optimum	80 °C	
Holding Pressure	60.0 MPa	
Back Pressure	As low as possible	
Drying Recommended	yes	
Hold Pressure Time	4.00 s/mm	

备注

¹ 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。

² 一般属性：这些不能被视为规格。

³ One time tested

⁴ 10°C/min



购买地点

供应商

DuPont Performance Polymers
Wilmington, DE USA
电话: 302-999-4592
Web: <http://plastics.dupont.com/>

分销商

CCC Plastics
电话: 800-465-6917
Web: <http://www.cccplastics.com/>
供货地区: Canada

Distrupol Ltd

Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.

电话: 08452003040
Web: <http://www.distrupol.com/>
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PolyOne Distribution

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