

# Physical properties of General DELPET Grades

## 帝尔培特主要产品分类的物理特性

Typical laboratory averages based on ISO 10350 根据ISO 10350的单元数据

Property 特性	ISO Test Method ISO试验方法	Units 单位	560F	60N	80N	LP-1
<b>1. Rheological property 流变特性</b>						
Melt mass-flow rate (MFR) 熔融质量流率 (MFR)	1133 cond 13	g/10min	13.0	8.0	2.0	1.1
<b>2. Mechanical properties 机械特性</b>						
Tensile modulus 拉伸模量	527-2/1A/1	MPa	3200	3200	3300	3300
Tensile strength at break 断裂拉伸强度	527-2/1A/5	MPa	69	72	75	75
Tensile strain at break 断裂拉伸应变	527-2/1A/5	%	5	5	6	8
Charpy unnotched impact strength 沙尔皮无缺口冲击强度	179/1eU	KJ/m <sup>2</sup>	20	20	22	22
Charpy notched impact strength 沙尔皮缺口冲击强度	179/1eA	KJ/m <sup>2</sup>	1.3	1.3	1.4	1.4
<b>3. Thermal properties 耐热特性</b>						
Temperature of deflection under load 载荷变形温度	75-1 75-2	°C	84	91	100	97
Vicat softening temperature 维卡耐热温度	306 B 50	°C	94	98	109	104
<b>4. Physical properties 物理特性</b>						
Water absorption at 23°C 23°C下的吸水率	62 method 1 62 方法1	%	0.3	0.3	0.3	0.3
Density 密度	1183	g/cm <sup>3</sup>	1.19	1.19	1.19	1.19
<b>5. Specific properties not specified in ISO 10350 规格以外的特殊特性</b>						
Refractive Index 折射率	489	—	1.49			
Total luminous transmittance 总透光率	13468-1	%	92			
Flexural modulus 弯曲模量	178	MPa	3200	3300	3300	3300
Flexural strength 抗弯强度	178	MPa	120	120	130	130
Rockwell hardness (M Scale) 洛氏硬度 (M等级)	2039-2	—	92	95	100	95
Mold Shrinkage Percent 成形收缩率	ASAHIKASEI TEST METHOD 旭化成试验方法	cm/cm	0.002~0.006			
UL Standard E48285 UL标准 E48285			94HB	94HB	94HB	94HB
SAE (Society of Automotive engineers) Standard SAE (汽车工程协会) 标准			—	—	Approved 已获得批准	—
FDA food additive regulation 21 CFR 177.1010 FDA食品添加剂规则 21 CFR 177.1010			Conformed 符合	Conformed 符合	Conformed 符合	Conformed 符合
Sales Point 销售要点			Highest flow ability of all DELPET. Allowing reduced screw load for broad selection of molding conditions. 在所有的帝尔培特产品之中具有最高的流动性,可以降低螺杆的负荷,扩大注塑条件的选择范围。	Having good flow ability and using as most standard grade. Also having good heat resistance and mechanical strength. 具有出色的流动性,适用于大多数标准等级,并且具备良好的耐热性能和机械强度。	Highest of all DELPET grades in heat resistance. Also having good balance at mechanical strength and chemical resistance. 在所有的帝尔培特产品等级之中具有最高的耐热性能,并且平衡兼备出色的机械强度和耐化学药品的特性。	Highest resistance to solvent-induced cracking. Also recommend for extrusion sheets and products. 具有最强的耐溶剂分解性能,同时推荐用于挤塑板和产品等。
Classification code number (ISO8257-1) 分类代码 (ISO 8257-1) VST-MFR-VN			092-120-53	100-060-53	108-015-53	108-015-73

\* The above values are typical laboratory averages and they are intended to serve as guides only. Please use these data for best match of your purpose. Further these data can be changed by reform of physical property.

\* Convert unit to go CGS unit  
Pressure : 1MPa = 10.2Kg/cm<sup>2</sup>  
Energy : 1KJ/m<sup>2</sup> = 1.02Kgf/cm

\* 以上数据为典型实验室平均值,仅供参考。请根据您的用途使用这些数据。此外,这些数据可能会因物理特性的改革而改变。