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Unithene LH523

高密度聚乙烯

USI Corporation

Technical Data

产品说明

UNITHENE LH523 is a high density polyethylene especially developed for injection molding of PET bottle base-cup. In addition, UNITHENE LH523 can be applied to powder coating after grinding. High melt index of UNITHENE LH523 makes it exhibit excellent processability. Also, UNITHENE LH523 possesses superb impact strength and resistance to stress crack owing to its lower density. A combination of above characteristics and good stiffness, high hardness, high surface gloss, less deformation provides UNITHENE LH523 as an outstanding resin for the application of PET bottle base-cup. UNITHENE LH523 can be easily pigmented to any color by either dry blending or melt blending of the pigment into the resin. If it is necessary, the printability of items molded from UNITHENE LH523 can be accomplished after a suitable flame, chemical or electronic surface treatment. UNITHENE LH523 meets the requirement of the U.S. Food and Drug Administration regulation. It can be safely used for food applications.

总体

性能特点	• High Hardness • 刚性，良好 • 高 ESCR（抗应力裂纹）	• 高密度 • 抗撞击性，高 • 可加工性，良好	• 良好的表面光洁度 • 食品接触的合规性
用途	• 杯子	• 瓶子	
形式	• 颗粒料		
加工方法	• 细丝挤出	• 注射成型	

物理性能	额定值 单位制	测试方法
密度	0.956 g/cm³	ASTM D1505
熔流率	23 g/10 min	ASTM D1238
机械性能	**额定值 单位制**	**测试方法**
拉伸模量 - 1% 正割 (模压成型)	902 MPa	ASTM D638
抗张强度		ASTM D638
屈服, 注塑	22.6 MPa	
断裂, 注塑	28.4 MPa	
伸长率 (断裂, 注塑)	300 %	ASTM D638
明显的弯曲模量	804 MPa	ASTM D747
冲击性能	**额定值 单位制**	**测试方法**
悬壁梁缺口冲击强度	34 J/m	ASTM D256
硬度	**额定值 单位制**	**测试方法**
硬度计硬度 (邵氏 D)	68	ASTM D2240
热性能	**额定值 单位制**	**测试方法**
脆化温度	-76.0 °C	ASTM D746
维卡软化温度	125 °C	ASTM D1525

补充信息

Melting Point, ASTM D2117: 128°C
Torsional Stiffness, ASTM D1043: 9200 kg/cm²

备注

[1] 一般属性：这些不能被视为规格。