河南源宏高分子新材料有限公司.

Henan Yuanhong High Polymer New Materials Co.,Ltd.

Technical Data Sheet

Product Model：**YH-105**

Product Description

YH-105产品是一种共聚改性的非晶型功能性聚酯材料，具有透明高、韧性好、色相优异、流动性能好等特点，可应用于3D打印、注塑、高速拉膜等领域。

YH-105 is a copolymer modified amorphous functional polyester material, featuring high transparency, good toughness, excellent hue, and good flowability. It can be applied in fields such as 3D printing, injection molding, and high-speed film drawing.

Parameter		Test Method	Typical Value, Unit
通用性能General Performence			
密度Density		GB/T 1033.1-2008	1.28
模塑收缩率Mold Shrinkage		ASTM D955	0.4%
特性粘度Intrinsic viscosity		GB/T 14190-2017-5.1.1	0.715±0.015 dL/g
端羧基含量Carboxy		GB/T 14190-2017-5.4.2	≤35 mol/ton
色值Color	b	GB/T 14190-2017-5.5.2	≤0
	L		≥58
二甘醇含Di-ethylene Glycol		GB/T 14190-2017-5.2.1	≤1.4%
含水率Moisture Content		GB/T 14190-2017-5.7.2	≤0.2%
吸水率/24hr:Moisture Absorption 24hr immersion		ASTM D570	0.30%
灰分Ash Content		GB/T 14190-2017-5.10	≤0.05%
机械性能Mechanical Properties			
屈服拉伸强度Tensile Yield Strength		ASTM D638	53 MPa
断裂拉伸强度Tensile Break Strength		ASTM D638	26.3 MPa
屈服伸长率Elongation @Yield		ASTM D638	4.0%
断裂伸长率Elongation @Break		ASTM D638	105%
弯曲强度Flexural Strength		ASTM D790	76 MPa
弯曲模量Flexural Modulus		ASTM D790	2150 MPa
洛氏硬度Rockwell Hardness,RScale		ASTM D785	108
悬臂梁缺口冲击强度Izod Impact Strength Notched			
@ 23°C		ASTM D256	40J/m

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热性能Thermal Properties		
热变形温度Deflection Temperature		
@ 0.455 MPa @ 1.82 MPa	ASTM D648 ASTM D648	69.1。C 63.3℃
维卡软化温度Vicat Softening Temperature		
@ 1kg load	ASTM D1525	80.1℃
流动性能		
熔融指数 Melt Flow Index	GB/T 3682.1	16±1 g/10min
光学性能Optical Properties		
透光率Transmittance	ASTM D1003	87%
雾度Haze	ASTM D1003	2.0%
可燃性能Flammability Properties		
水平燃烧 阻燃等级 1.70mm 1.70mm UL Flammability Classification	UL94	HB
垂直燃烧阻燃等级 3.20mm UL Flammability Classification 3.20mm	UL94	V-2
加工条件Typical Processing Conditions		
干燥温度Drying Temperature	/	60-65℃
干燥时间Drying Time	/	4-6 h
加工熔融温度Processing Melt Temperature	/	220-260 ℃
模具温度Mold Temperature	/	20-40 ℃
贮存和包装Storage and packaging		
贮存条件Storage Condition	阴凉、干燥、通风Cool, Dry, Ventilated	
贮存期Storage Period	自生产之日起不超18个月 Not exceeding 18 months from the date of production	
包装要求Packaging Request	外袋+PE内衬袋密封包装 Outer bag+PE inner lining bag sealed packaging	

除非另有说明，所有测试均在23°C（73°F）和50%相对湿度下进行。

[a] *Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.*

[b] *Units are in SI units.*

补充说明：

基于有限的性能测试，河南源宏高分子新材料有限公司不保证所有特定货物的材料符合给定的值。

Comments

Properties reported here are based on limited testing. Henan Yuanhong High Polymer New Materials makes no representation that the material in any particular shipment will conform to the values given.