

技术参数表

TECHNICAL DATA SHEET (TDS)



产品名称 | Product: 环保醋酸纤维素胶粒-ECA



1. 简介 Description

“ECA”是“GREAT”胶粒家族中的一员，是一类环保级醋酸纤维素胶粒。根据原料等级、产品软硬程度及性能不同，ECA 有不同等级、不同用途的透明颗粒。ECA 是一种 100%不含邻苯的天然改性聚合物，具有非凡的抗冲击强度、尺寸稳定性和手感舒适性等，可广泛应用于板材、片材、首饰、人体接触制品。可采用常见的挤出、注塑、模压工艺进行加工。

“ECA” is a member of “GREAT” acetate compound family. It is an environmental-friendly cellulose diacetate compound. ECA is supplied with transparent granules with different grade according to the differences of raw materials and final properties. ECA is a proven, phthalates free natural modified polymer with extraordinary properties such as impact strength, dimensional stability and warm to the touch, etc. It was commonly used in glasses frame, hand tools, shoelace, and human contact products. It can be processed through extrusion, injection, and molding compression.

2. 存储 Storage

储存于阴凉、干燥、通风处，避免阳光直射。推荐温度：5-30°C。避免与常规邻苯增塑胶粒产品共存，防止制品中邻苯含量超标。

Keep in a cool, dry, and well-ventilated place, avoiding direct sunlight. Temperatures between 5 and 30°C are recommended. Avoid storing with regular phthalates plasticized compound, to prevent from polluting.

3. 理化性能 Chemical and Physical properties

项目 ITEM	单位 UNIT	测试方法 STANDARD	测试值 Value
熔融指数 Melt Flow Index (200°C,5kg)	g/10min	ISO 1133	5-15
黄度指数 Yellow index	/	ISO 17223	5-25

比重 Specific gravity	g/cm ³	ISO 1183	1.2-1.4
悬臂梁冲击强度 ¹ Izod impact strength, notched	KJ/m ²	ISO 180/1A	18-30
断裂拉伸强度 ¹ Tensile strength at break,50 mm/min	MPa	ISO 527-1,-2	25-45
断裂伸长率 ¹ Elongation at break,50 mm/min	%	ISO 527-1,-2	40-70
弯曲模量 ¹ Flexural modulus, 2 mm/min	MPa	ISO 178	1200-2400
邵氏硬度 ¹ Shore Hardness, Type D,15s	-	ISO 868	70-80
维卡软化温度 ¹ VST, 120°C/h 10N	°C	ISO 306	80-100

备注 Note:

1. 结果来源于注塑样条。The physical properties were analyzed with injection sample.

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