

ASA

Material introduction / 材料介绍

Introduction / 介绍:

This material is a rigid thermoplastic engineering material with superior mechanical properties.

The mechanical properties of ASA are comparable to those of ABS and even higher, so it may become a new favorite material for general prototyping.

该材料是一种有优越的机械性能的刚性热塑性工程材料。

与ABS相比，ASA的机械性能与其不相上下，甚至更高，因此可能成为通用原型制作材料的新宠。

Material advantages / 材料优点:

ASA has excellent ultraviolet stability, good mechanical properties, processability, impact resistance and weather resistance.

ASA具备优异紫外线稳定性，具有良好的机械性能、加工性、抗冲击性、耐候性。

Its extensive rough surface treatment makes it ideal for making consumer sports equipment.

其广泛的粗面处理使其成为制作消费体育用品。

Accuracy/精度:

200μm 或 0.2%

Performance Parameter / 性能参数 :

| | |
|---|-----------------------------------|
| Heat deflection temperature /热变形温度: | (ASTM D 648 @66PSI): 91~98°C |
| Hardness /硬度: | (ASTM D 785): 82 |
| Tensile modulus /拉伸模量: | (ASTM D 638): 1,950~2,010 MPa |
| Tensile strength /拉伸强度: | (ASTM D 638): 30~33 MPa |
| Strain elongation/断裂延长率: | (ASTM D 638):3~9% |
| Bending strength/弯曲强度: | (ASTM D 790): 48~ 60MPa |
| Flexural modulus/弯曲模量: | (ASTM D 790):1,630~1,870MPa |
| Impact strength of the gap/缺口冲击强度: | (23°C, ASTM D 256):64~321J/m |
| Coefficient of thermal expansion/热膨胀系数: | °C (TMA(T<Tg)) :8.28E-06~8.79E-06 |
| Insulation strength/绝缘强度: | (ASTM D149-09):329~414V/mil |
| Fire resistance rating/耐燃等级: | HB |

Application / 应用场景:

Home appliance shell field: air conditioner, air purifier, vacuum cleaner, electric fan, ironing machine, water dispenser, juicer, hair dryer, etc.

家用电器外壳领域：空调、空气净化器、吸尘器、电风扇、熨烫机、饮水机、榨汁机、电吹风等。

Automobile and motorcycle accessories: such as rearview mirror, dashboard, steering wheel, headlights, seats and handles and other automobile accessories; car navigation system, driving recorder, car vacuum cleaner, reversing radar and other car supplies.

汽车、摩托车配件：如后视镜、仪表盘、方向盘、车灯、座椅及把手等汽车配件;汽车导航仪、行车记录仪、车用吸尘器、倒车雷达等汽车用品。

Digital electronic product housing field: such as notebook computer, tablet computer, mobile phone, digital camera, game console, audio, MP3, mobile power supply, etc.

数码电子产品外壳领域：如笔记本电脑、平板电脑、手机、数码相机、游戏机、音响、MP3、移动电源等。

Agricultural tools and sports equipment: horticultural irrigation machines, lawn mowers and sports equipment.

农用器具和体育器材领域：园艺灌溉机、剪草机及体育器材等。