技术规格书
Technical Datasheet

Eastech 亿科化学

C442

ABS 树脂 / ABS Resin

C442 是一种低残留量的耐热注塑级 ABS，在加工过程中具有良好的流动性和抗冲击性以及优异的热稳定性。
C442 is a low-residue, heat-resistant injection-grade ABS material. During the processing, it exhibits excellent fluidity, impact resistance, and outstanding thermal stability.

C442 主要用于汽车的内外饰，也适用于高耐热性的挤出/共挤板材。
C442 is primarily used for automotive interior and exterior trim, and is also suitable for high-heat-resistant extrusion and coextrusion sheet applications.

性能特点 Benefits

高耐热 High heat resistance
高冲击 High impact strength
良好的加工性能 Good processing performance

应用领域 Applications

汽车内外饰 Automotive Interior and Exterior Trim
挤出成型 Extrusion
注塑成型 Injection moulding

性能 Properties	测试方法 Test Method	测试条件 Test Condition	典型值 Nominal Value
物理性能 Physical Properties			
密度 Density	ISO 1183-1	23℃	1.04 g/cm^3
熔体质量流动速率 Melt Mass-Flow Rate (MFR)	ISO 1133	220℃/10kg	10 g/10min
模塑收缩率 Molding Shrinkage	ISO 294-4	23℃	0.4-0.7%
机械性能 Mechanical Properties			
拉伸屈服强度 Tensile Strength at Yield	ISO 527	50 mm/min	48 MPa
拉伸断裂伸长率 Tensile Elongation at Break	ISO 527	50 mm/min	15%
拉伸模量 Tensile Modulus	ISO 527	1 mm/min	2350 MPa
弯曲强度 Flexural Strength	ISO 178	2 mm/min	75 MPa
弯曲模量 Flexural Modulus	ISO 178	2 mm/min	2250 MPa
悬臂梁缺口冲击强度 Izod Notched Impact Strength	ISO 180	23℃, 5.5J，A 缺	16 kJ/m^2
热性能 Thermal Properties			
热变形温度 Deflection Temperature Under Load	ISO 75-2	1.8 MPa	85 ℃
维卡软化温度 Vicat Softening Temperature	ISO 306	50N, 50℃/h	105 ℃

备注：数据为典型值，仅供参考，不作为品质指标及其他用途的保证
The data are typical values for reference only and are not used as quality specifications or other purposes.

加工工艺参数推荐

Recommended Processing Parameters

挤出成型 Extrusion

如无排气，建议在 80°C 下的空气循环烘箱中预干燥 2-4 小时。

If no venting, pre-drying required at 80°C for 2-4 hours in an air circulating oven.

熔体温度 190-230°C

Melt temperature 190-230°C

注塑成型 Injection Molding

建议在 80°C 下的空气循环烘箱中预干燥 2-4 小时。

Pe-drying is required at 80°C for 2-4 hours in an air circulating oven.

熔体温度 Melt Temp 230-260℃

模具温度 Mould Temp 40-70°C

备注：以上加工参数仅供参考，实际工艺参数应根据不同机型、模具以及产品设计等进行适当调整。

The above processing parameters are for reference only. Actual processing parameters should be adjusted appropriately according to different equipment, molds and products.

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