

# 塑料和橡胶以及汽车材料和紧固件的物性测试标准一览表

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| 产品名称 | 塑料和橡胶以及汽车材料和紧固件的物性测试标准一览表             |
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## 产品详情

### 塑料

ASTM C273/C273M-20 Standard Test Method for Shear Properties of Sandwich Core Materials夹层芯材剪切性能的标准试验方法

ASTM C297/C297M-16 Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions夹层结构的平拉强度的标准试验方法

ASTM C365/C365M-2 Standard Test Method for Flatwise Compressive Properties of Sandwich Cores夹心平压性能的标准试验方法

ASTM C393/C393M-20 Standard Test Method for Core Shear Properties of Sandwich Constructions by Beam Flexure梁弯曲夹心结构的芯剪切性能的标准试验方法

ASTM D 1238-20 Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer通过挤出塑性计的热塑性塑料熔体流动速率的标准测试方法

ASTM D1621-16 Standard Test Method for Compressive Properties of Rigid Cellular Plastics硬质泡沫塑料压缩性能的标准试验方法

ASTM D256-10(2018) Standard Test Method for Distillation of Pitch沥青蒸馏的标准试验方法

ASTM D2583-13a Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor使用巴科尔硬度仪测定硬质塑料压痕硬度的标准试验方法

ASTM D3039/D3039M-17 Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials聚合物基复合材料拉伸性能的标准试验方法

ASTM D3171-22 Standard Test Methods for Constituent Content of Composite Materials 复合材料成分含量的标准试验方法

ASTM D3518/D3518M-18 Standard Test Method for In-Plane Shear Response of Polymer Matrix Composite Materials by Tensile Test of a  $\pm 45^\circ$  Laminate a  $\pm 45^\circ$  层压板拉伸试验法测定聚合物基质合成材料平面内剪切应力反应性的标准试验方法

ASTM D635-22 Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position 塑料在水平位置的燃烧速率和/或燃烧程度和时间的标准试验方法

ASTM D638-22 Standard Test Method for Tensile Properties of Plastics 塑料拉伸性能的标准试验方法

ASTM D648-18 Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position 边缘位置弯曲载荷下塑料挠曲温度的标准试验方法

ASTM D695-15 Standard Test Method for Compressive Properties of Rigid Plastics 硬质塑料压缩性能的标准试验方法

ASTM D7078/D7078M-20 Standard Test Method for Shear Properties of Composite Materials by V-Notched Rail Shear Method 复合材料剪切性能试验方法

ASTM D790-17 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials 未增强和增强塑料与电气绝缘材料弯曲性能的标准试验方法

EN 12201-2+A1 : 2013 Plastics piping systems for water supply, and for drainage and sewerage under pressure - Polyethylene (PE) - Part 2: Pipes 给排水以及压力排污用塑料管道系统. 聚乙烯(PE). 第2部分: 管道

GB/T 10007-2008 Rigid cellular plastics. Determination of shear strength 硬质泡沫塑料. 剪切强度试验方法

GB/T 1033.1-2008 Plastics. Methods for determining density of non-cellular plastics. Part 1: Immersion method, liquid pycnometer method and titration method 塑料. 非泡沫塑料密度的测定. 第1部分: 浸渍法、液体比重瓶法和滴定法

GB/T 1034-2008 Plastics. Determination of water absorption 塑料. 吸水性的测定

GB/T 1040.1-2018 Plastics—Determination of tensile properties—Part 1: General principles 塑料 拉伸性能的测定 第1部分: 总则

GB/T 1040.2-2022 Plastics—Determination of tensile properties—Part 2: Test conditions for molding and extrusion plastics 塑料 拉伸性能的测定 第2部分: 模塑和挤塑塑料的试验条件

GB/T 1040.4-2006 Plastics. Determination of tensile properties. Part 4: Test conditions for isotropic and orthotropic fiber-reinforced plastic composites 塑料 拉伸性能的测定 第4部分: 各向同性和正交各向异性纤维增强复合材料的试验条件

GB/T 1041-2008 Plastics. Determination of compressive properties 塑料. 压缩性能的测定

GB/T 1043.1-2008 Plastics. Determination of Charpy impact properties. Part 1: Non-instrumented impact test 塑料. 简支梁冲击性能的测定. 第1部分: 非仪器化冲击试验

GB/T 12000-2017 Plastics—Determination of the effects of exposure to damp heat, water spray and salt mist 塑料

暴露于湿热、水喷雾和盐雾中影响的测定

GB/T 1446-2005 Fiber-reinforced plastics composites-The generals for determination of properties纤维增强塑料性能试验方法总则

GB/T 1447-2005 Fiber-reinforced plastics composites---Determination of tensile properties纤维增强塑料拉伸性能试验方法

GB/T 1448-2005 Fiber-reinforced plastics composites-Determination of compressive properties纤维增强塑料压缩性能试验方法

GB/T 1449-2005 Fiber-reinforced plastic composites-Determination of flexural properties纤维增强塑料弯曲性能试验方法

GB/T 1451-2005 Fiber-reinforced plastics composites---Determination of Charpy impact properties纤维增强塑料简支梁式冲击韧性 试验方法

GB/T 1452-2018 Test method for flatwise tension strength of sandwich constructions夹层结构平拉强度试验方法

GB/T 1453-2022 Test method for flatwise compression properties of sandwich constructions or cores夹层结构或芯子平压性能试验方法

GB/T 1455-2022 Test method for shear properties of sandwich constructions or cores夹层结构或芯子剪切性能试验方法

GB/T 1456-2021 Test method for flexural properties of sandwich constructions夹层结构弯曲性能试验方法

GB/T 1462-2005 Test methods for water absorption of fiber reinforced plastics纤维增强塑料吸水性试验方法

GB/T 1463-2005 Test methods for density and relative density of fiber reinforced plastics纤维增强塑料密度和相对密度试验方法

GB/T 1633-2000 Plastics--Thermoplastic materials--Determination of vicat softening temperature(VST)热塑性塑料维卡软化温度(VST)的测定

GB/T 1634.1-2019 Plastics—Determination of temperature of deflection under load—Part 1:General test method塑料 负荷变形温度的测定 第1部分:通用试验方法

GB/T 1634.2-2019 Plastics—Determination of temperature of deflection under load—Part 2:Plastics and ebonite塑料 负荷变形温度的测定 第2部分：塑料和硬橡胶

GB/T 1634.3-2004 Plastics-Determination of temperature of deflection under load-Part 3:High-strength thermosetting laminates塑料 负荷变形温度的测定 第3部分;高强度热固性层压材料

GB/T 1843-2008 Plastics--Determination of Izod impact strength塑料悬臂梁冲击试验方法

GB/T 19466.2-2004 Plastics-Differential scanning calorimetry(DSC)-Part 2:Determination of glass transition temperature塑料 差示扫描量热法(DSC)第2部分;玻璃化转变温度的测定

GB/T 19466.3-2004 Plastics-Differential scanning calorimetry(DSC)-Part 3:Determination of temperature and enthalpy of melting and crystallization塑料 差示扫描量热法(DSC)第3部分;熔融和结晶温度及热焓的测定

GB/T 19466.6-2009 Plastics. Differential scanning calorimetry(DSC).Part 6:Determination of oxidation induction time(isothermal OIT) and oxidation induction temperature (dynamic OIT)

塑料.差示扫描量热法(DSC)第6部分:氧化诱导时间(等温OIT)和氧化诱导温度(动态OIT)的测定

GB/T 2406.1-2008 Plastics. Determination of burning behavior by oxygen index. Part

1:Guidance塑料.用氧指数法测定燃烧行为.第1部分:导则

GB/T 2406.2-2009 Plastics. Determination of burning behavior by oxygen index. Part 2:Ambient-temperature

test塑料.用氧指数法测定燃烧行为.第2部分:室温试验

GB/T 2408-2021 Plastics—Determination of burning characteristics—Horizontal and vertical test塑料

燃烧性能的测定 水平法和垂直法

GB/T 2411-2008 Plastics and ebonite. Determination of indentation hardness by means of a durometer(shore

hardness) 塑料和硬橡胶.使用硬度计测定压痕硬度(邵氏硬度)

GB/T 2573-2008 Test method for aging properties of glass fiber reinforced

plastics玻璃纤维增强塑料老化性能试验方法

GB/T 2576-2005 Test method for insoluble matter content of resin used in fiber reinforced

plastics纤维增强塑料树脂不可溶分含量试验方法

GB/T 2577-2005 Test method for resin content of glass fiber reinforced

plastics玻璃纤维增强塑料树脂含量试验方法

GB/T 3355-2014 Test method for in-plane shear response of polymer matrix composite

materials聚合物基复合材料纵横剪切试验方法

GB/T 3356-2014 Test method for flexural properties of orientational fiber reinforced polymer Matrix composite

materials定向纤维增强聚合物基复合材料弯曲性能试验方法

GB/T 3398.2-2008 Plastics. Determination of hardness. Part 2:Rockwell hardness塑料.硬度测定.第2部分:洛氏硬度

GB/T 3682.1-2018 Plastics—Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of

thermoplastics—Part 1:Standard method塑料

热塑性塑料熔体质量流动速率(MFR)和熔体体积流动速率(MVR)的测定 第1部分:标准方法

GB/T 3854-2017 Test method for hardness of reinforced plastics by means of a Barcol

impreser增强塑料巴柯尔硬度试验方法

GB/T 3855-2005 Test method for resin content of carbon fiber reinforced

plastics碳纤维增强塑料树脂含量试验方法

GB/T 3857-2017 Test method for chemical resistance of glass fiber reinforced thermosetting

plastics玻璃纤维增强热固性塑料耐化学介质性能试验方法

GB/T 5169.16-2017 Fire hazard testing for electric and electronic products. Part 16:Test flames.50 W horizontal and

vertical flame test methods电工电子产品着火危险试验 第16部分:试验火焰 50 W水平与垂直火焰试验方法

GB/T 531.1-2008 Rubber, vulcanized or thermoplastic. Determination of indentation hardness. Part 1:Duromer

method( Shore hardness) 硫化橡胶或热塑性橡胶.压入硬度试验方法.第1部分:邵氏硬度计法(邵尔硬度)

GB/T 6343-2009 Cellular plastics and rubbers. Determination of apparent density 泡沫塑料及橡胶.表观密度的测定

GB/T 8813-2020 Rigid cellular plastics—Determination of compression properties 硬质泡沫塑料 压缩性能的测定

GB/T 8924-2005 Test method for flammability characteristics of fiber reinforced plastics-Oxygen index method 纤维增强塑料燃烧性能试验方法 氧指数法

GB/T 9341-2008 Plastic. Determination of flexural properties 塑料.弯曲性能的测定

GB/T 9345.1-2008 Plastics. Determination of ash.Part1:General methods 塑料.灰分的测定.第1部分:通用方法

GB/T 9641-1988 Test method for tensile properties of rigid cellular plastics 硬质泡沫塑料拉伸性能试验方法

GB/T 19466.1-2004 Plastics-Differential scanning calorimetry(DSC)-Part 1:General principles 塑料 差示扫描量热法(DSC)第1部分;通则

IEC 60695-11-10:2013 Fire hazard testing. Part 11-10: Test flames.50 W horizontal and vertical flame test methods 着火危险试验.第11-10部分:试验火焰.50 W水平及垂直火焰试验法

ISO 1133-1:2011 Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 1: Standard method 塑料.测定热塑塑料的熔体质量流动速率(MFR)和熔体容积流量速率(MVR).第1部分:标准方法

ISO 11357-1:2016 Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles 塑料差示扫描量热法(DSC)第1部分:一般原则

ISO 11357-2:2020 Plastics — Differential scanning calorimetry (DSC) — Part 2: Determination of glass transition temperature and step height 塑料差示扫描量热法 ( DSC ) 第2部分:玻璃化转变温度和台阶高度的测定

ISO 11357-3:2018 Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization 塑料.差示扫描量热法(DSC).第3部分:熔化和结晶焓和温度的测定

ISO 11357-6:201 Plastics - Differential scanning calorimetry (DSC) - Part 6: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT) 塑料.差示扫描量热法(DSC).第6部分:氧化诱导时间(等温OIT)和氧化诱导温度(动态OIT)的测定

ISO 1172:1996 Textile-glass-reinforced plastics, prepregs, molding compounds and laminates - Determination of the textile-glass and mineral-filler content - Calcination methods 纺织玻璃纤维增强塑料、预浸料、模塑料和层压塑料 纺织玻璃纤维和矿物质填料含量的测定 煅烧法

ISO 1183-1:2019 Plastics — Methods for determining the density of non-cellular plastics — Part 1: Immersion method, liquid pycnometer method and titration method 塑料.非泡沫塑料密度的测定方法.第1部分:浸渍法 液体比重瓶法和滴定法

ISO 14125:1998 Fiber-reinforced plastic composites - Determination of flexural properties 纤维增强塑料复合材料.挠性性能的测定

ISO 14126:1999 Fiber-reinforced plastic composites - Determination of compressive properties in the in-plane direction 纤维增强塑料混合物.水平方向压缩能力的测定

ISO 14129:1997 Fiber-Reinforced Plastic Composites - Determination of the in-Plane Shear Stress/Shear Strain Response, Including the in-Plane Shear Modulus and Strength, by the Plus or Minus 45 Degree Tension Test Method  
纤维增强塑料复合材料.用  $\pm 45^\circ$  张力试验法测定平面剪应力/剪应变特性,包括平面切变模量和剪切强度

ISO 14130:1997 Fiber-reinforced plastic composites - Determination of apparent interlaminar shear strength by short-beam method  
纤维增强塑料复合材料 用短试片法测定表观层间粘合剪切强度

ISO 175:2010 Plastics - Methods of test for the determination of the effects of immersion in liquid chemicals  
塑料.液态化学品浸入效应的测定用试验方法

ISO 178:2019 Surface chemical analysis — Secondary ion mass spectrometry — Linearity of intensity scale in single ion counting time-of-flight mass analyzers  
表面化学分析.二次离子质谱法.单离子计数飞行时间质量分析仪中强度标度的线性

ISO 179-1:2010 Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test  
塑料.摆锤式冲击性能测定.第1部分:非仪器化冲击试验

ISO 180:2019 Plastics - Determination of Izod impact strength  
塑料 伊兆特(Izod)冲击强度的测定

ISO 1922:2018 Rigid cellular plastics - Determination of shear properties  
硬质泡沫塑料.剪切强度的测定

ISO 1926:2009 Rigid cellular plastics - Determination of tensile properties  
硬质泡沫塑料.拉伸性能的测定

ISO 2039-2:1987 Plastics; Determination of hardness; Part 2 : Rockwell hardness  
塑料 硬度测定 第2部分:邵氏硬度

ISO 306:2013 Plastics - Thermoplastic materials - Determination of Vicat softening temperature (VST)  
塑料.热塑性材料.维卡软化温度(VST)的测定

ISO 3451-1:2019 Plastics — Determination of ash — Part 1: General methods  
塑料灰分的测定第1部分:一般方法

ISO 527-1:2019 Plastics — Determination of tensile properties — Part 1: General principles  
塑料 - 拉伸性能的测定 - 第1部分:总则

ISO 527-2:2012 Plastics - Determination of tensile properties - Part 2: Test conditions for molding and extrusion  
塑料 拉伸性能的测定 第2部分:模压和挤压塑料试验条件

ISO 527-4:2021 Plastics — Determination of tensile properties — Part 4: Test conditions for isotropic and orthotropic fiber-reinforced plastic composites  
塑料.拉伸性能的测定.第4部分:各向同性和正交异性纤维增强塑料复合材料的试验条件

ISO 527-5:2021 Plastics — Determination of tensile properties — Part 5: Test conditions for unidirectional fiber-reinforced plastic composites  
塑料拉伸性能的测定第5部分:单向纤维增强塑料复合材料的试验条件

ISO 604:2002 Plastics - Determination of Compressive Properties  
塑料.压缩性能的测定

ISO 62:2008 Plastics - Determination of water absorption  
塑料.吸水性的测定

ISO 75-1:2020 Plastics — Determination of temperature of deflection under load — Part 3: High-strength thermosetting laminates and long-fiber-reinforced plastics  
塑料制品; 载荷下挠度温度的测定第3部分:高强度热固性层压板和长纤维增强塑料

ISO 75-2:2013 Plastics - Determination of temperature of deflection under load - Part 2: Plastics and ebonite 塑料.载荷下挠曲温度的测定.第2部分:塑料和硬橡胶

ISO 75-3:2004 Plastics - Determination of temperature of deflection under load - Part 3: High-strength thermosetting laminates and long-fiber-reinforced plastics 塑料.载荷下挠曲温度的测定.第3部分:高强度热固性叠层板和长纤维增强塑料

ISO 844:2014 Rigid cellular plastics - Determination of compression properties 硬质泡沫塑料.压缩性能测定

ISO 845:2006 Cellular plastics and rubbers - Determination of apparent density 泡沫塑料和橡胶.表观密度的测定

ISO 868:2003 Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness) 塑料和硬质橡胶.用硬度计测定压痕硬度 [肖氏(SHORE)硬度]

JC/T 773-2010 Fiber-reinforced plastics composites. Determination of apparent interlaminar shear strength by short-beam method 纤维增强塑料 短梁法测定层间剪切强度

UL 94 -2021 Test for flammability of plastic materials for parts in devices and appliances 设备和器具部件用塑料材料易燃性的试验

## 橡胶

ASTM D5963-22 Standard Test Method for Rubber Property—Abrasion Resistance (Rotary Drum Abrader) 橡胶性能耐磨性的标准试验方法 (转鼓磨床)

GB/T 10707-2008 Rubber. Determination of the burning 橡胶燃烧性能的测定

GB/T 4498.1-2013 Rubber. Determination of ash. Part 1:Muffle furnace method 橡胶 灰分的测定 第1部分:马弗炉法

GB/T 533-2008 Rubber, vulcanized or thermoplastic. Determination of density 硫化橡胶或热塑性橡胶.密度的测定

GB/T 9867-2008 Rubber, vulcanized or thermoplastic. Determination of abrasion resistance using a rotating cylindrical drum device 硫化橡胶或热塑性橡胶耐磨性能的测定(旋转辊筒式磨耗机法)

ISO 4649:2017 Rubber, vulcanized or thermoplastic - Determination of abrasion resistance using a rotating cylindrical drum device 硫化橡胶或热塑性橡胶.利用旋转式辊筒鼓形设备进行耐磨性能的测定

ISO 868:2003 Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness) 塑料和硬质胶.用硬度计测定针入硬度[肖氏(SHORE)硬度]

## 汽车材料

QC/T 941-2013 Test methods of mercury in automobiles materials 汽车材料中汞的检测方法

QC/T 942-2021 Test methods of hexavalent chromium in automobiles materials 汽车材料中六价铬的检测方法

QC/T 943-2013 Test methods of lead and cadmium in automobiles materials 汽车材料中铅、镉的检测方法

QC/T 944-2013 The methods of polybrominated biphenyls and polybrominated diphenyl ethers in automotive materials汽车材料中多溴联苯 ( PBBs ) 和多溴二苯醚 ( PBDEs ) 的检测方法

## 紧固件

GB/T 3098.1-2010 Mechanical properties of fasteners. Bolts, screws and studs紧固件机械性能.螺栓、螺钉和螺柱

GB/T 3098.13-1996 Mechanical properties of fasteners--Torsional test and minimum torques for bolts and screws with nominal diameters 1mm to 10mm紧固件机械性能 螺栓与螺钉的扭矩试验和破坏扭矩公称直径1 ~ 10mm

GB/T 3098.17-2000 Mechanical Properties of fasteners-Preloading test for the detection of hydrogen embrittlement-Parallel bearing surface method紧固件机械性能 检查氢脆用预载荷试验 平行支承面法

GB/T 3098.2-2015 9.2 Mechanical properties of fasteners. Nuts紧固件机械性能 螺母

GB/T 3098.6-2014 Mechanical properties of fasteners. Stainless steel Bolts, screws and studs紧固件机械性能 不锈钢螺栓、螺钉和螺柱

GJB 715.26A-2015 Fastener test methods. Double shear test紧固件试验方法双剪