

# PC沙伯基础943A

产品名称	PC沙伯基础943A
公司名称	东莞市奥亚塑胶原料有限公司
价格	.00/千克
规格参数	品牌:PC沙伯基础943A材质报告 型号:PC沙伯基础943A物性表 产地:PC沙伯基础943A最新价格
公司地址	总部位于香港，大陆公司位于广东省东莞市
联系电话	13794872977 18128015760

## 产品详情

SABIC沙伯基础创新Lexan PC 943A物性表

以下是SABIC沙伯基础创新Lexan PC 943A中英文物性表资料

SABIC Innovative Plastics Lexan 943A PC

特性：中等粘度，阻燃V0(3.0mm)。紫外线稳定。优良外观，透明

Material Notes:

LEXAN 943A is a medium viscosity flame retardant, UV-stabilized grade. UL-94 V0 listed and available in transparent and tints..

Physical Properties物理性质

Metric公制数据

English英制数据

Comments测试方法

Density密度

1.20 g/cc

0.0434 lb/in

ISO 1183

Moisture Absorption at Equilibrium 吸湿平衡

0.15 %

0.15 %

23 ° C / 50% RH; ISO 62

Water Absorption 吸水率 at Saturation

0.35 % @ Temperature 23.0 ° C

0.35 % @ Temperature 73.4 ° F

ISO 62

Linear Mold Shrinkage, Flow 线性收缩率/流动

0.0050 - 0.0070 cm/cm

0.0050 - 0.0070 in/in

on tensile bar; SABIC Method

Melt Flow 熔体流动速率

9.0 g/10 min @ Load 1.20 kg, Temperature 300 ° C

9.0 g/10 min @ Load 2.65 lb, Temperature 572 ° F

[cm<sup>3</sup>/10 min] Melt Volume Rate; ISO 1133

Mechanical Properties 力学性能

Metric 公制数据

English 英制数据

Comments 测试方法

Hardness, H358/30

95.0 MPa

13800 psi

ISO 2039-1

Tensile Strength at Break 断裂拉伸强度

65.0 MPa

9430 psi

50 mm/min; ISO 527

Tensile Strength, Yield屈服拉伸强度

63.0 MPa

9140 psi

50 mm/min; ISO 527

Elongation at Break断裂伸长率

100 %

100 %

50 mm/min; ISO 527

Elongation at Yield屈服伸长率

6.0 %

6.0 %

50 mm/min; ISO 527

Tensile Modulus拉伸模量

2.35 GPa

341 ksi

1 mm/min; ISO 527

Flexural Yield Strength弯曲屈服强度

90.0 MPa

13100 psi

2 mm/min; ISO 178

Flexural Modulus弯曲弹性模量

2.30 GPa

334 ksi

2 mm/min; ISO 178

Izod Impact, Notched悬臂梁缺口冲击强度 (ISO)

12.0 kJ/m@Temperature -30.0 ° C

5.71 ft-lb/in@Temperature -22.0 ° F

80\*10\*3; ISO 180/1A

70.0 kJ/m@Temperature 23.0 ° C

33.3 ft-lb/in@Temperature 73.4 ° F

80\*10\*3; ISO 180/1A

Izod Impact, Unnotched悬臂梁无缺口冲击强度 (ISO)

NB@Temperature 23.0 ° C

NB@Temperature 73.4 ° F

80\*10\*3; ISO 180/1U

NB@Temperature -30.0 ° C

NB@Temperature -22.0 ° F

80\*10\*3; ISO 180/1U

Charpy Impact Unnotched夏比缺口试样冲击

NB@Temperature 23.0 ° C

NB@Temperature 73.4 ° F

Edgew 80\*10\*3 sp=62mm; ISO 179/1eU

NB@Temperature -30.0 ° C

NB@Temperature -22.0 ° F

Edgew 80\*10\*3 sp=62mm; ISO 179/1eU

Charpy Impact, Notched夏比缺口冲击

1.40 J/cm@Temperature -30.0 ° C

6.66 ft-lb/in@Temperature -22.0 ° F

V-notch Edgew 80\*10\*3 sp=62mm; ISO 179/1eA

3.00 J/cm@Temperature 23.0 ° C

14.3 ft-lb/in@Temperature 73.4 ° F

ISO 179/2C

7.30 J/cm@Temperature 23.0 ° C

34.7 ft-lb/in@Temperature 73.4 ° F

V-notch Edgew 80\*10\*3 sp=62mm; ISO 179/1eA

Taber Abrasion, mg/1000 Cycles周期泰伯磨耗

10@Load 1.00 kg

10@Load 2.20 lb

CS-17; SABIC Method

Electrical Properties电性能

Metric公制数据

English英制数据

Comments测试方法

Volume ResiSTivity体积电阻率

$\geq 1.00e+15$  ohm-cm

$\geq 1.00e+15$  ohm-cm

IEC 60093

Surface Resistance表面电阻

$\geq 1.00e+15$  ohm

$\geq 1.00e+15$  ohm

ROA; IEC 60093

Dielectric Constant介电常数

2.7@Frequency 1.00e+6 Hz

2.7@Frequency 1.00e+6 Hz

IEC 60250

2.7@Frequency 50.0 - 60.0 Hz

2.7@Frequency 50.0 - 60.0 Hz

IEC 60250

Dielectric Strength介电强度

17.0 kV/mm@Thickness 3.20 mm

432 kV/in@Thickness 0.126 in

in oil; IEC 60243-1

Dissipation Factor耗散因数

0.0010@Frequency 50.0 - 60.0 Hz

0.0010@Frequency 50.0 - 60.0 Hz

IEC 60250

.010@Frequency 1.00e+6 Hz

0.010@Frequency 1.00e+6 Hz

IEC 60250

Comparative Tracking Index跟踪指数

225 V

225 V

IEC 60112

Thermal Properties热性能

Metric公制数据

English英制数据

Comments测试方法

CTE, linear, Parallel to Flow线性热膨胀系数

70.0 m/m- ° C@Temperature 23.0 - 80.0 ° C

38.9 in/in- ° F@Temperature 73.4 - 176 ° F

ISO 11359-2

Thermal Conductivity 导热系数

0.200 W/m-K

1.39 BTU-in/hr-ft- ° F

ISO 8302

Hot Ball Pressure Test 热球压力测试

$\leq 140$  ° C

$\leq 284$  ° F

IEC 60695-10-2

Deflection Temperature at 热变形温度 0.46 MPa (66 psi)

136 ° C

277 ° F

Edgew 120\*10\*4 sp=100mm; ISO 75/Be

Deflection Temperature at 热变形温度 1.8 MPa (264 psi)

125 ° C

257 ° F

Edgew 120\*10\*4 sp=100mm; ISO 75/Ae

Vicat Softening Point 维卡软化点

141 ° C

286 ° F

Rate B/50; ISO 306

142 ° C

288 ° F

Rate B/120; ISO 306

UL RTI, Electrical 相对温度指数

130 ° C

266 ° F

UL 746B

UL RTI, Mechanical with Impact机械冲击热指数

120 ° C

248 ° F

UL 746B

UL RTI, Mechanical without Impact无机机械冲击热指数

125 ° C

257 ° F

UL 746B

Flammability, UL94阻燃等级

V-2@Thickness 1.50 mm

V-2@Thickness 0.0591 in

UL 94

V-0@Thickness 3.00 mm

V-0@Thickness 0.118 in

UL 94

Flammability Test

1.5

1.5

[mm], Needle Flame Test, 10 s , passes at; IEC 60695-2-2

Oxygen Index氧指数

35 %

35 %

LOI; ISO 4589

Glow Wire Test灼热丝测试

850 ° C@Thickness 1.00 mm

1560 ° F@Thickness 0.0394 in

Glow Wire Flammability Index; IEC 60695-2-12

960 ° C@Thickness 1.60 mm

1760 ° F@Thickness 0.0630 in

Glow Wire Flammability Index; IEC 60695-2-12

Optical Properties光学性质

Metric公制数据

English英制数据

Comments测试方法

ReFRactive Index折射率

1.586

1.586

ISO 489

TRansmission, Visible透光率

88 %@Thickness 2.54 mm

88 %@Thickness 0.100 in

ASTM D 1003