

耐候PC/基础创新/HPS4用于医疗器械和制药应用

产品名称	耐候PC/基础创新/HPS4用于医疗器械和制药应用
公司名称	悠塑塑化科技（上海）有限公司
价格	.00/千克
规格参数	沙伯基础:美国 HPS4:HPS4 美国:美国
公司地址	上海市青浦区公园路99舜浦大厦7层R区772室
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产品详情

Lexan PC HPS4物性

General InformationProduct Description

中等黏度,医疗级.

GeneralMaterial Status

Commercial: Active

Availability

North America

Additive

Mold Release

Features Medium FlowEthylene Oxide SterilizableSteam SterilizableRadiation SterilizableBiocompatibleE-beam SterilizableUses Medical/Healthcare ApplicationsPharmaceuticals Agency Ratings ISO 10993USP Class VI Forms

Pellets

Processing Method

Injection Molding

ASTM and ISO Properties 1Physical

Nominal Value

Unit

Test Method

Specific Gravity

1.19

ASTM D792Density

1.19

g/cm

ISO 1183Melt Mass-Flow Rate (MFR) (300 ° C/1.2 kg)

11

g/10 min

ASTM D1238Melt Volume-Flow Rate (MVR) (300 ° C/1.2 kg)

0.610

in/10min

ISO 1133Molding Shrinkage - FlowASTM D955

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0.0050 to 0.0070

in/in

0.126 in

Molding Shrinkage - Across Flow (0.126 in)

0.0050 to 0.0070

ASTM D955Water Absorption (24 hr)

0.14

%

ASTM D570 Water Absorption (Saturation, 73 ° F)

0.26

ISO 62 Water Absorption (Equilibrium, 73 ° F, 50% RH)

0.10

ISO 62 Mechanical

Nominal Value

Tensile Modulus 2

334000

psi

ASTM D638 Tensile Modulus

347000

ISO 527-2/1 Tensile Strength 3 (Yield)

8990

ASTM D638 Tensile Stress (Yield)

8850

ISO 527-2/50 Tensile Strength 3 (Break)

10700

ASTM D638 Tensile Stress (Break)

10600

ISO 527-2/50 Tensile Elongation 3 (Yield)

6.5

ASTM D638 Tensile Strain (Yield)

6.0

ISO 527-2/50 Tensile Elongation 3 (Break)

140

ASTM D638 Tensile Strain (Break)

130

ISO 527-2/50 Flexural Modulus 4 (1.97 in Span)

348000

ASTM D790 Flexural Modulus 5

326000

ISO 178 Flexural Strength 5, 6

13500

ISO 178 Flexural Strength 4 (Yield, 1.97 in Span)

14500

ASTM D790 Impact

Nominal Value

Charpy Notched Impact Strength

73 ° F

39.0

ft · lb/in

ISO 179/2C

73 ° F 7

33.3

ISO 179/1eA

-22 ° F 7

7.14

ISO 179/1eA Charpy Unnotched Impact Strength 7 ISO 179/1eU

-22 ° F

No Break

73 ° F

Notched Izod Impact ASTM D256

-22 ° F

4.12

ft · lb/in

73 ° F

15.7

Notched Izod Impact Strength 8ISO 180/1A

73 ° F

-22 ° F

4.76

Unnotched Izod Impact Strength 8ISO 180/1U

-22 ° F

Instrumented Dart Impact (73 ° F, Total Energy)

779

in · lb

ASTM D3763 Thermal

Nominal Value

Deflection Temperature Under Load (66 psi, Unannealed, 0.252 in)

280

° F

ASTM D648 Deflection Temperature Under Load ASTM D648

264 psi, Unannealed, 0.252 in

270

264 psi, Unannealed, 0.126 in

259

Heat Deflection Temperature 9 (264 psi, Unannealed, 3.94 in Span)

261

ISO 75-2/AeVicat Softening Temperature

289

ASTM D1525 10Vicat Softening Temperature

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289

ISO 306/B50

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293

ISO 306/B120CLTE - Flow (-40 to 104 ° F)

0.000043

in/in/ ° F

ASTM E831CLTE - Flow (-40 to 104 ° F)

0.000043

ISO 11359-2CLTE - Transverse (-40 to 104 ° F)

0.000042

ASTM E831CLTE - Transverse (-40 to 104 ° F)

0.000042

ISO 11359-2Ball Pressure Test (257 ° F)

Pass

IEC 60695-10-2Processing InformationInjection

Nominal Value

Drying Temperature

248

Drying Time

2.0 to 4.0

hr

Suggested Max Moisture

0.020

Hopper Temperature

140 to 176

Rear Temperature

500 to 536

Middle Temperature

518 to 554

Front Temperature

536 to 590

Nozzle Temperature

518 to 554

Processing (Melt) Temp

536 to 590

Mold Temperature

176 to 230