美国科慕 ETFE HT-2170高韧性氟塑料 耐低温特氟龙 静电耗散半导电

产品名称	美国科慕 ETFE HT-2170高韧性氟塑料 耐低温特氟龙 静电耗散半导电
公司名称	天津市星云新材料有限公司
价格	.00/件
规格参数	品牌:美国科慕 包装:25KG/包 产地:美国科慕
公司地址	天津市东丽区航双路与津滨快速路交口处东北侧航空商务中心2#-1,2-201(二层2057室)
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产品详情

美国科慕 ETFE HT-2170高韧性氟塑料 耐低温特氟龙 静电耗散半导电

Generic Name: 乙烯四氟乙烯共聚物 (ETFE) - 提供方: The Chemours Company

Tefzel ETFE HT-2183 is a premium fluoroplastic resin available in translucent, 2.5-mm (0.1-in) pellets. Compared with other grades of Tefzel , its most unique features are a greatly enhanced flex life and resistance to environmental stress.Tefzel HT-2183 and the other Tefzel fluoropolymers are melt processible, modified copolymers of ethylene and tetrafluoroethylene. They are high-performance resins that can be processed at relatively high rates compared with other fluorocarbon resins. They are mechanically tough and offer an excellent balance of properties.Tefzel HT-2183 is preferred for applications where other thermoplastics are lacking in mechanical toughness; broad thermal capability; ability to meet unusual thermal, mechanical, and chemical environmental extremes; or limited by fabricating problems. Examples are components and linings for the chemical industry and molded parts with metal inserts or thick sections for use at high temperatures.Properly processed products made from neat Tefzel HT-2183 are inert to most solvents and chemicals, hydrolytically stable, and weather-resistant. The recommended upper service temperature is 155 ° C (311 ° F); useful properties are retained at cryogenic ranges. The level and stability of dielectric properties are excellent and the flame rating is V-0 by the UL94 method. They are resistant to environmental stress cracking and have outstanding impact strength, cutthrough, and abrasion resistance. Statements, or data, regarding behavior in a flame situation are not intended to reflect hazards presented by this or any other material when under actual fire conditions.Typical End ProductsTefzel HT-2183 is ideal for many end products, including chemical service items, such as lined valves and fittings, pump housings and impellers, column packings, and other abrasion-resistant linings; high-temperature electrical components and insulation; fasteners, corrugated tubing, and duct work; and film.

与典型值比较 - Upgrade to compare! 与黄卡比较

单位: SI

总览材料状态

已商用：当前有效

资料 1

Technical Datasheet (English)

UL 黄卡 2

E54681-101244452

搜索 UL 黄卡

The Chemours Company

Tefzel

供货地区

北美洲

拉丁美洲

欧洲

亚太地区

特性

Excellent Weather Resistance

高 ESCR（抗应力开裂）

高抗撞击性

共聚物

抗溶剂性

良好的电气性能

耐化学品性能，良好

耐磨损性，良好

韧性良好

水解稳定

用途

薄膜

泵件

衬里

电气/电子应用领域

电子绝缘

阀门/阀门部件

管件

紧固件

内衬，耐磨

配件

外观

半透明

形式

粒子

加工方法

吹塑成型

挤出

树脂传递成型

压缩模塑

注射成型

物理性能

额定值

单位制

测试方法

密度 / 比重

1.70

g/cm

ASTM D792表观密度

1.30

g/cm

内部方法熔流率（熔体流动速率） (297 ° C/5.0 kg)

6.0

g/10 min

ASTM D3159吸水率 (24 hr)

7.0E-3

%

ASTM D570机械性能

额定值

单位制

测试方法

抗张强度 (23 ° C)

41.4

MPa

ASTM D638伸长率 (断裂, 23 ° C)

300

%

ASTM D638弯曲模量 (23 ° C)

1000

MPa

ASTM D790冲击性能

额定值

单位制

测试方法

悬壁梁缺口冲击强度 (23 ° C)

无断裂

ASTM D256硬度

额定值

单位制

测试方法

肖氏硬度 (邵氏 D)

67

ASTM D2240热性能

额定值

单位制

测试方法

熔融温度

255 到 280

° C

ASTM D3418线形热膨胀系数 - 流动 (0 到 100 ° C)

1.3E-4

cm/cm/ ° C

ASTM D696最高使用温度

155

° C

UL 746电气性能

额定值

单位制

测试方法

体积电阻率

1.0E+17

ohms · cm

ASTM D257介电强度 (0.250 mm)

70

kV/mm

ASTM D149介电常数 (23 ° C, 1 MHz)

2.50 到 2.60

ASTM D1531耗散因数 (23 ° C, 1 MHz)

7.2E-3

ASTM D1531可燃性

额定值

单位制

测试方法

UL 阻燃等级

V-0

UL 94极限氧指数

30 到 32

%

ASTM D2863