

# 氟橡胶混炼胶 FLUOTECH™ F-70101A

## Fluoroelastomer Full Compound FLUOTECH™ F-70101A

### 技术数据表

**材料类型:** 黑色氟橡胶混炼胶, 硬度 Shore A65~75

**材料特点:** 优异的流动性, 改善脱模性能, 低压缩永久变形。适用于模压、传递模压。

**材料应用:** O型圈、垫圈以及其他低压变模压部件。

**连续使用温度:** 最高 250℃ 最低 -25℃

**实验试片硫化条件:** 一段硫化:10min@170℃  
二段硫化: 230度(8+16)hrs

### Technical Data Sheet

**Material Type:** Black color fluoroelastomer compound, hardness Shore A 65-75.

**Features:** Excellent mold flow, excellent mold release & good compression set. Suitable for compression, transfer molding.

**Applications:** O-rings, gaskets and other low compression set required sealing parts.

**Working Temperature Range:** Maximum +250℃ Minimum -25℃

**Lab Testing Curing Condition:** Press Cure: 10min@170℃  
Post Cure: (8+16)hrs@230℃

### 基本性能 / Original Properties

性能 / Property	单位 / Unit	测试方法 / Test Method	典型值 / Typical Value
硬度 Shore A / Hardness Shore A	pt	ASTM D-2240	72
拉伸强度 / Tensile Strength	MPa	ASTM D-412	14.5
断裂伸长率 / Elongation at Break	%	ASTM D-412	210
比重 / Specific Gravity	g/cm <sup>3</sup>	ASTM D-297	1.90

### 热老化, 70hrs@250℃ / Heating Aging, 70hrs@250℃

性能 / Property	单位 / Unit	测试方法 / Test Method	典型值 / Typical Value
硬度变化 / Change in Hardness	pt	ASTM D-573	-1
拉伸强度变化 / Change in tensile strength	%	ASTM D-573	7
断裂伸长率变化 / Change in Elongation	%	ASTM D-573	-12

### 燃油 C, 70hrs@23℃ / Fuel C, 70hrs@23℃

性能 / Property	单位 / Unit	测试方法 / Test Method	典型值 / Typical Value
硬度变化 / Change in Hardness	pt	ASTM D-471	-1
拉伸强度变化 / Change in tensile strength	%	ASTM D-471	-9
断裂伸长率变化 / Change in Elongation	%	ASTM D-471	-3
体积变化 / Change in Volume	%	ASTM D-471	+3.7

## 压缩永久变形, 70 hrs @ 200°C / Compression Set, Aged 70 hours @ 200°C

性能 / Property	单位 / Unit	调试方法 / Test Method	典型值 / Typical Value
6mm 试扣 / 6mm Buttons	%	ASTM D-395	15

**备注:** 为了获得最佳性能, 使用 FLUOTECH™ 时请仔细阅读产品说明书。

**Note:** To achieve best properties, please read FLUOTECH TDS carefully before use.

上表的数据仅作为产品的典型性能, 不作为产品技术规格。具体规格可根据客户加工条件和用途另行协定。可根据客户要求, 设计配方, 定制牌号。

Above are the typical values for reference but not for specification purpose.

由于产品的使用条件不受控制且多种多样, 用户务必在使用前评估和确定产品是否适用于其目标用途。

下面的表述完全取代任何明示和暗示的质量保证 (包括适销性和特殊用途事宜性的保证): 如果氟乐泰科产品被证明有缺陷, 氟乐泰科的唯一责任, 即用户所能获得的唯一补救, 将由氟乐泰科决定, 或者调换被证明有缺陷的部分产品, 或者按照用户的购买价格退还货款。任何情况下, 不管法理如何, 包括违反担保或合同, 过失或严格责任, 氟乐泰科对任何直接、间接、特殊、随附或后果性损失或损害, 均不承担责任。

Because conditions of product use are outside 's control and vary widely, User must evaluate and determine whether a FIUOTECH product will be suitable for user's intended application before using it.

The following is made in lieu in all express and implied warranties (including warranties of merchantability and fitness for a particular purpose): If a FIUOTECH product is proved to be defective, FIUOTECH's only obligation, and user's only remedy, will be, at FIUOTECH's option, to replace the quantity of product shown to be defective when user received it or to refund user's purchase price. In no event will FIUOTECH be liable for any direct, indirect, special, incidental, or consequential loss or damage, regardless of legal theory, such as breach of warranty or contract, negligence, or strict liability.

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