

**STARSIL® LSR 8600**

## 通用型液态硅橡胶

技术数据表 n° 074164–Sep/2018

## 概述

**STARSIL® LSR 8600** 是双组份加成体系的通用型液体硅橡胶。A/B 双组份 1/1 混合后，适用生产高透高抗撕的注射成型制品。

## 用途

- 婴儿用品
- 呼吸面罩
- 汽车应用：阀、垫圈、密封件
- 皮肤接触，如衬垫
- 球囊等

## 优点

- 优越的加工性能，易于脱模，容易上色
- 高透明高纯度
- 优异的物理性能，高撕裂和断裂伸长率
- 极好的回弹特性
- 柔软，如肌肤般的触感

## 典型物性

|          | A/B 挤出速率 (g/min) | 外观 | 密度 (g/cm <sup>3</sup> ) | 硬度 Shore A | 拉伸强度 (MPa) | 断裂伸长率 (%) | 100% 模量 (MPa) | 撕裂强度 AST D 624 Die B (N/mm) | 压缩永久变形 177°C*22h (%) | 回弹 (%) |
|----------|------------------|----|-------------------------|------------|------------|-----------|---------------|-----------------------------|----------------------|--------|
| LSR 8620 | 76/79            | 透明 | 1.09                    | 20         | 8.3        | 1040      | 0.32          | 16                          | NA                   | 42     |
| LSR 8640 | 52/52            | 透明 | 1.12                    | 39         | 9.2        | 724       | 0.89          | 32                          | 22                   | 55     |
| LSR 8645 | 66/63            | 透明 | 1.12                    | 46         | 9.3        | 688       | 1.39          | 41                          | 22                   | 59     |
| LSR 8650 | 61/60            | 透明 | 1.12                    | 50         | 9.4        | 638       | 1.90          | 44                          | 22                   | 61     |
| LSR 8655 | 75/69            | 透明 | 1.12                    | 54         | 9.3        | 609       | 2.49          | 47                          | 22                   | 62     |
| LSR 8660 | 70/60            | 透明 | 1.12                    | 60         | 9.5        | 520       | 2.90          | 48                          | 21                   | 65     |
| LSR 8670 | 47/45            | 透明 | 1.13                    | 67         | 10.2       | 479       | 3.77          | 49                          | 22                   | 64     |

ASTM试片 160mm\*160mm\*2mm，一段硫化条件为177°C \*5mins(热模)，压缩永久变形块硫化条件为177°C \*10mins (冷模)。每个数据为“约”。

**请注意：典型物性不能用于制定规格。制定本产品规格前，请先联系当地销售部门。本公告中列出的典型性能不能用来作为有机硅材料特殊应用的技术参数，请联系我们技术服务部门以获得书面的说明书。**

## 使用

热硫化速度取决于模具温度及制品尺寸。**STARSIL® LSR 8600** 的 A 和 B 组份通过液体硅胶注射加工设备进行等比例混合。推荐生产时使用无气混合，计量及分散设备。为了确保一致的结果，需要精确计量和充分混合。

## 清理

需确保模具和工作区域干净。同一加工设备上不得使用其他有机橡胶。微量的外来杂质会导致催化剂中毒并抑制硫化。所有的计量及混合设备应被彻底清理干净。聚合物体系中，

**STARSIL® LSR 8600**

如含有微量胺、硫、氮氧化物、有机锡及一氧化碳将会影响制品的硫化，应当避免。

|               |   |
|---------------|---|
| <b>包装</b>     | <b>STARSIL® LSR 8600</b> 采用 20 kg/桶或 200kg/桶包装运输。   |
| <b>储存与有效期</b> | <b>STARSIL® LSR 8600</b> 在未开封的原包装中，室温 24°C (77°F)下，自包装上标明的生产日期起可以保存12个月。超过保质期后，埃肯有机硅将不再保证产品品质达到销售的指标。 |
| <b>安全</b>     | 请参考 <b>STARSIL® LSR 8600</b> 的安全数据表（MSDS）。  |

请访问我们的网站: [www.lxxh.chemchina.com](http://www.lxxh.chemchina.com)

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**LSR 8600****GENERAL PURPOSE LIQUID SILICONE  
RUBBER**

Technical Data Sheet n° 074165– Dec/2018

**Description** **LSR 8600** is a two-component general purpose liquid silicone rubber designed for producing high clarity, high tear strength parts through injection process after A/B mix with ratio of 1/1.

**Application**

- Baby care parts
- Respiratory mask
- Automotive applications: valves, gaskets, seals
- Skin contact parts like liners
- Balloons

**Key benefits**

- Excellent mold release and easily pigmented
- Superior clarity
- High performance physicals, high tear and elongation
- Excellent rebound resilience
- Soft, skin-like feel when molded

**Typical properties**

|          | A/B Extrusion Rate, g/min | Appearance  | Density (g/cm <sup>3</sup> ) | Hardness (Shore A) | Tensile Strength (MPa) | Elongation at break (%) | 100% Modulus (MPa) | Tear strength ASTM D 624 Die B (N/mm) | Compression Set 177°C*22h (%) | Rebound resilience (%) |
|----------|---------------------------|-------------|------------------------------|--------------------|------------------------|-------------------------|--------------------|---------------------------------------|-------------------------------|------------------------|
| LSR 8620 | 76/79                     | Transparent | 1.09                         | 20                 | 8.3                    | 1040                    | 0.32               | 16                                    | NA                            | 42                     |
| LSR 8640 | 52/52                     | Transparent | 1.12                         | 39                 | 9.2                    | 724                     | 0.89               | 32                                    | 22                            | 55                     |
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ASTM slabs 160mm\*160mm\*2mm at 177°C cured for 5 minutes with hot mold. Compression set slabs at 177°C cured for 10 minutes with cold mold. These data are approx.

*Please note: The typical properties are not intended for use in preparing specifications for any particular applications. Please contact our Technical Service Department for more detailed data.*

**Instruction of use** Cure is dependent upon molding temperature and part size. Parts A and B components of **LSR 8600** are designed to be mixed in equal parts using standard liquid injection molding processing equipment and techniques. Airless mixing, metering and dispensing equipment are recommended for production operations. Accurate measuring and complete mixing are essential factors in obtaining consistent results.

# LSR 8600

|                               |  |
|-------------------------------|--|
| <b>Cleaning</b>               | Special care must be taken to assure clean moulds and a clean work area with no organic rubbers used on the same processing equipment. Traces of foreign materials can poison the catalyst and inhibit the cure. All metering and mixing equipment should be thoroughly cleaned. Polymer systems, which contain traces of amines, sulfur, nitrogen oxide, organotin compounds and carbon monoxide can interfere with the cure of this product and should be avoided. |
| <b>Packaging</b>              | <b>LSR 8600</b> is available in 20 kg pails or 200 kg drums.   |
| <b>Storage and shelf life</b> | <b>LSR 8600</b> when stored in the original, unopened container at room temperature 24°C (77°F), can be stored for 12 months from the date of manufacturing. Beyond this date, ELKEM Silicones no longer guarantees that the product meets the sales specifications.   |
| <b>Safety</b>                 | Please consult the Safety Data Sheet of <b>LSR 8600</b> .  |

Visit our website: [www.lxxh.chemchina.com](http://www.lxxh.chemchina.com)

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