

Isopan 600

用于制造处于较高肖氏A硬度范围的技术橡胶制品的聚酯聚氨酯橡胶。基于Isopan 600的正确配方化合物具有的性能特点包括高耐磨性、优异的撕裂和拉伸性能、良好的耐油和耐燃料性、良好的耐臭氧和耐候性、低气体渗透性以及良好的低温性能。

Material Definition

Composition: Polyaddition product based on an polyester polyol and isocyanate

Appearance: Light yellow cast blocks

Density (20 °C): Approx. 1.2 g/cm³

Mooney viscosity (ML 1+4, 100 °C): 20–32

Delivery form: Cast blocks

Physiological properties: See safety data sheet

Application

Isopan 600 用作高硬度技术弹性体配方和成型橡胶制品的基聚合物，适用于需要高耐磨性、高机械强度和良好耐化学性的应用。典型目标应用包括密封件、隔膜、液压垫片、滚筒以及其他用于苛刻工业工况的耐磨弹性体部件。最终可达到的硬度和物理性能取决于完整配方、硫化体系和加工条件。

Processing

Isopan 600 配方通常在常规橡胶设备上加工，如开炼机和密炼机。可使用适当的助剂（如硬脂酸）以减少粘连。

Compounds containing IsoQure TT should be vulcanized within 24 hours after mixing.

Molded articles are mainly processed by compression molding.

Depending on formulation and equipment, transfer molding, injection molding, and extrusion may also be feasible.

Extrudates can be vulcanized in hot air under pressure.

Processing behavior, cure response, and final physical properties depend strongly on the overall formulation and curing conditions.

Use Cases

Typical application areas include:

- High-hardness technical molded parts
- Seals and diaphragms
- Hydraulic gaskets
- Rollers and roller coverings
- Wear-resistant industrial elastomer parts
- Elastomer goods for oil-, fuel-, and weather-exposed service

Performance Profile

Properly formulated compounds based on Isopan 600 are designed for:

- High abrasion resistance
- Strong tear and tensile properties
- Good fuel and oil resistance
- Good ozone and weather resistance
- Low gas permeability
- Good low-temperature behavior
- High mechanical strength
- Good chemical resistance

Recommended Additives

Recommended crosslinking agent: [IsoQure TT](#)

Further formulation guidance available on request.

Handling, Storage and Packaging

Storage: Store cool and dry in tightly closed original packaging.

Storage stability: 730 days from date of production when stored under recommended conditions.

Packaging: 50 kg carton on 500 kg skid.

Handling: For additional handling information please consult the current safety data sheet.

Regulatory Information

Under EU REACH, polymers are generally exempt from registration. Relevant regulatory obligations for constituent substances remain subject to applicable legislation.

Availability

- Americas (United States, Canada, South America)
- APAC (Asia-Pacific)
- ANZ (Australia, New Zealand)
- EU (European Union)
- PRC (People's Republic of China)
- UK (United Kingdom)

免责声明/条件

Revision: 2026-03-18 / be32

我们尽力确保所有文档的准确性。然而，我们以善意提供的任何信息或建议，都不包含任何保证或特定适用性的无限声明。我们只对合格的工业用户售卖。产品的使用者有责任仔细研究后，不断地在其特定用途的环境下测试产品及其应用程序。我方产品和数据的使用需要谨慎和小心，完全由用户自己负责。Kautschuk集团不承担由此产生的任何损害责任。我们的一般条款和条件同样适用。

标明的储存和保质期都是自发货日起算的最少保证值。过了这个期限后，产品需要额外的质量控制测试，但可能仍在规定范围之内。有关更多信息，请参阅我们的保质期政策。

如需获取产品信息的更新，请定期查看此网页：

<https://kautschuk.com/products/elastomer/isopan-600>