

# Elastollan<sup>®</sup> LP9291

## Preliminary Technical Bulletin

## Polyether Type

Elastollan<sup>®</sup> LP9291 is a polyether-based thermoplastic polyurethane (TPU). It is a transparent plasticizer-free TPU, excellent for molding and extrusion applications. It exhibits excellent abrasion resistance, toughness, transparency, low temperature properties, hydrolytic stability and fungus resistance. As with all TPU products, Elastollan<sup>®</sup> LP9291 must be dried before processing. The drying step is required to maintain a low moisture content until the product enters the processing equipment. The water content must be less than 0.03% before and during processing. The typical drying conditions should be 2-4 hours @ 160°-180°F (70°-85°C). Elastollan<sup>®</sup> LP9291 can be stored for up to 1 year in its original container. Containers should be stored in a cool and dry area.

Properties	Unit	Test Method	Typical Value
Hardness	Shore A	DIN 53505	72
Density	g/cm <sup>3</sup>	DIN EN ISO 1183-1	1.08
Tensile Strength	MPa	DIN 53504-S2	25
Elongation at Break	%	DIN 53504-S2	860
Stress at 20% elongation	MPa	DIN 53504-S2	1.5
Stress at 100% elongation	MPa	DIN 53504-S2	3.1
Stress at 300% elongation	MPa	DIN 53504-S2	4.8
Tear Strength	N/mm	DIN ISO 34-1	45
Abrasion Resistance	mm <sup>3</sup>	DIN 53516	34

*The above values are shown as typical values and should not be used as specifications.  
Molded plaques 0.080" thick were cured 20 hours at 100 °C before testing*

**Caution:** Contact with product dusts from regrinding operations may cause temporary irritation of the eyes and the respiratory tract. Use with local exhaust. Under hot melt processing conditions (170-230°C), wear personal protective equipment to prevent thermal burns.

**First aid:** *Eyes*-Flush eyes with flowing water at least 15 minutes. If irritation develops, consult a physician. *Skin*-Skin contact with hot melt may cause thermal burns. Call a physician immediately. *Inhalation*-If vapors generated from the hot melt process are inhaled, move to fresh air. Aid in breathing. If breathing difficulties develop, see a physician immediately.

**In case of fire:** Use water fog, foam, CO<sub>2</sub>, or dry chemical extinguishing media. Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

**Disposal:** Waste material, unused contents and empty containers must be disposed of in accordance with applicable local, state or federal regulations. Refer to our Material Safety Data Sheet for specific disposal instructions.

**In case of chemical emergency:** Call CHEMTREC day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents. 800-424-9300

**Attention:** This product is sold solely for use by industrial institutions. Refer to our Material Safety Data Sheet regarding safety, usage, applications, hazards, procedures and disposal of this product. Consult your supervisor for additional information.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

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**BASF**