

Elastollan[®] C75A15W (LP9099)

Technical Bulletin

Polyester Type

Product Description

Elastollan[®] C75A15W (or LP9099) is a polyester-based thermoplastic polyurethane (TPU) containing a plasticizer. It exhibits excellent abrasion resistance and toughness, good hydrolytic stability, good heat, oil, fuel, and solvent resistance.

Processing/Handling

As with all TPU products, Elastollan[®] C75A15W (or LP9099) must be dried before processing. The drying step is required to both dry the granules and also maintain a low moisture content until the product enters the processing equipment. The water content must be less than 0.03% before processing. The typical drying conditions should be 2-4 hours @ 160°-180° F (70°-85° C).

Elastollan[®] C75A15W (or LP9099) can be stored for up to 1 year in its original container. Containers should be stored in a cool and dry area.

Physical Properties	Units	ASTM Method	Typical Value
Specific Gravity	gr/cc	D-792	1.17 ± 0.01
Hardness	Shore A	D-2240	75 ± 2
Tensile Strength	Mpa psi	D-412	42 6100
Tensile Stress @ 100% Elongation	Mpa psi	D-412	4.1 600
@ 300% Elongation	Mpa psi		8.6 1240
Elongation @ Break	%	D-412	770
Tensile Set @ Break	%	D-412	75
Tear Strength	kN/m pli	D-624 DIE C	77 440
Abrasion Resistance	mg (Loss)	D-1044 (Taber)	50

Suggested Starting Extrusion Temperatures	
Zone 1 (Feed)	340° F (170° C)
Zone 2	350° F (175° C)
Zone 3	360° F (180° C)
Zone 4	365° F (185° C)
Adapter	375° F (190° C)
Die	375° F (190° C)
Melt Temp.	365° F (185° C)

- The above values are shown as typical values and should not be used as specifications.
- Molded plaques 0.080" thick were cured 20 hours @ 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, CO₂, or dry chemical extinguishing media. Fire-fighters 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 CHEMTEC 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.

Important: While the descriptions, designs, data and information contained herein are presented in good faith and for believed to be accurate, it is provided your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use.

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BASF Canada
345 Carlingview Drive
Toronto, Ontario
M9W 6N9
(416) 675-3611

Ever-Flaming Advanced
Material Co., Ltd.
Baotong Building, Baoan
District, Shenzhen,
Guangdong Province,
China
Phone: +86 75529565648
Fax: +86 75529565685-806
www.coimtpu.com

九焱新材料(深圳)有限公司

地址: 深圳市宝安区宝民一路宝通大厦

电话: 0755-29565648
传真: 0755-29565685 转 806
网址: www.coimtpu.com

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