

Elastollan® 1195A10FN

Technical Bulletin

Polyether Type

Elastollan® 1195A10FN is a polyether-based thermoplastic polyurethane (TPU). It exhibits excellent abrasion resistance, toughness, transparency, low temperature properties, hydrolytic stability and fungus resistance. Elastollan® 1195A10FN is also conforming to the FDA food contact section, book 21, section 177.2600. As with all TPU products, Elastollan® 1195A10FN 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 @ 195°-220°F (90°-105°C). Elastollan® 1195A10FN can be stored for up to 1 year in its original container. Containers should be stored in a cool and dry area.

Properties	Test Method	Typical Value			
		English	SI		
Physical					
Specific Gravity	gr./cm ³	ASTM D-792			
Hardness	Shore A	ASTM D-2240			
Mechanical					
Tensile Strength (Ultimate)	psi / MPa	ASTM D-412			
Tensile Stress	@100% Elong.	ASTM D-412			
Tensile Stress	@300% Elong.	ASTM D-412			
Elongation at Break	%	ASTM D-412			
Tensile Set at Break	%	ASTM D-412			
Compression Set, %	22 hrs @ 23°C	ASTM D-395 (B)			
Compression Set, %	22 hrs @ 70°C	ASTM D-395 (B)			
E-Modulus	psi / MPa	ASTM D-412			
Flexural Modulus	psi / MPa	ASTM D-790			
Tear Strength	lb./in. N/mm	ASTM D-624, Die C			
Taber Abrasion Resistance / mg	1000 gr./H-18	ASTM D-1044			
Thermal					
Vicat Softening Point	°F/°C	ASTM D-1525			
Processing Conditions, Extrusion		380 - 405° F 190 - 210° 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 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.

In case of fire: Use water fog, foam, CO₂, 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 CHEMTRIC day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents.

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.



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