

Elastollan[®] C70A10W

Technical Bulletin

Polyester Type

Elastollan[®] C70A10W 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. As with all TPU products, Elastollan[®] C70A10W 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[®] C70A10W 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	1.15	1.15
Hardness	Shore A/D	ASTM D-2240	71A	71A
Mechanical				
Tensile Strength (Ultimate)	psi/MPa	ASTM D-412	4400 psi	30 MPa
Tensile Stress	@100% Elong.	ASTM D-412	450 psi	3.1 MPa
Tensile Stress	@300% Elong.	ASTM D-412	810 psi	5.6 MPa
Elongation at Break	%	ASTM D-412	790%	790%
Tensile Set at Break	%	ASTM D-412	75%	75%
Compression Set, %	22 hrs @ 23°C	ASTM D395 (B)	20%	20%
Compression Set, %	22 hrs @ 70°C	ASTM D395 (B)	45%	45%
Tear Strength	lb./in. N/mm	ASTM D-624, Die C	370 lb./in.	65 N/mm
Processing Conditions, Extrusion				
	°F/°C		330 - 365°F	165 - 185°C
Processing Conditions, Inj. Molding				
	°F/°C		335 - 370°F	165 - 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 at 100 °C before testing*

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