Elastollan® C95A10

Technical Bulletin

Polyester Type

Elastollan® C95A10 is a polyester-based thermoplastic polyurethane (TPU). It exhibits excellent abrasion resistance and toughness, good hydrolytic stability, good heat, oil, fuel, and solvent resistance. As with all TPU products, Elastollan® C95A10 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 @ 195º-220º F (90º-105ºC). Elastollan® C95A10 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	1.21	1.21
Hardness	Shore A/D	ASTM D-2240	95A / 46D	95A / 46D
Mechanical				
Tensile Strength (Ultimate)	psi/MPa	ASTM D-412	5800 psi	40 MPa
Tensile Stress	@100% Elong.	ASTM D-412	1900 psi	13 MPa
Tensile Stress	@300% Elong.	ASTM D-412	3840 psi	26 MPa
Elongation at Break	%	ASTM D-412	480%	480%
Tensile Set at Break	%	ASTM D-412	65%	65%
Compression Set, %	22 hrs@ 23ºC	ASTM D-395 (B)	30%	30%
Compression Set, %	22 hrs@ 70ºC	ASTM D-395 (B)	45%	45%
Tear Strength	lb./in. N/mm	ASTM D-624, Die C	830 lb./in.	140 N/mm
Taber Abrasion Resistance / mg loss	1000 gr./H-18	ASTM D-1044	35 mg	35 mg
Processing Conditions, Extrusion	°F/°C		380 - 410°F	190 - 205°C
Processing Conditions, Inj. Molding	°F/°C		390 - 420°F	195 - 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 ºC before testing

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