

Elastollan® C75A15W

Technical Bulletin

Polyester Type

Elastollan® C75A15W 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® C75A15W 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 processing. The typical drying conditions should be 2-4 hours @ 160°-180°F (70°-85°C). Elastollan® C75A15W 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		ASTM D-792	1.17	1.17
Hardness	Shore A/D	ASTM D-2240	75A	75A
Mechanical				
Tensile Strength (Ultimate)	psi/MPa	ASTM D-412	6100 psi	42 MPa
Tensile Stress	@100% Elong.	ASTM D-412	600 psi	4.1 MPa
Tensile Stress	@300% Elong.	ASTM D-412	1240 psi	8.6 MPa
Elongation at Break	%	ASTM D-412	770%	770%
Tensile Set at Break	%	ASTM D-412	75%	75%
Compression Set, %	22 hrs @ 23°C	ASTM D395 (B)	25%	25%
Compression Set, %	22 hrs @ 70°C	ASTM D395 (B)	40%	40%
Tear Strength	Lb./in. N/mm	ASTM D-624, Die	440 Lb./in.	77 N/mm
Taber Abrasion Resistance / mg loss	1000 gr./H-18	ASTM D-1044	50 mg	50 mg
Processing Conditions, Extrusion				
	°F/°C		340 - 375°F	170 - 190°C
Processing Conditions, Inj. Molding				
	°F/°C		345 - 375°F	70 - 190°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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