

Elastollan® C60A10W

Technical Bulletin

Polyester Type

Elastollan® C60A10W 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® C60A10W 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® C60A10W 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 | 1.14 | 1.14 |
| Hardness | Shore A/D | ASTM D-2240 | 63A | 63A |
| | | | | |
| Mechanical | | | | |
| Tensile Strength (Ultimate) | psi/MPa | ASTM D-412 | 3300 psi | 23 MPa |
| Tensile Stress | @100% Elong. | ASTM D-412 | 370 psi | 2.6 MPa |
| Tensile Stress | @300% Elong. | ASTM D-412 | 680 psi | 4.7 MPa |
| Elongation at Break | % | ASTM D-412 | 870% | 870% |
| 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 | 300 lb./in. | 51 N/mm |
| | | | | |
| Processing Conditions, Extrusion | °F/°C | | 320 - 355°F | 160 - 180°C |
| Processing Conditions, Inj. Molding | °F/°C | | 325 - 360°F | 160 - 180°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*

BASF

