

Technical Data Sheet

Tenite™ Butyrate 572E3720012 Clear Trsp

Applications

- Displays/in-store fixtures
- Industrial
- Profiles
- Sporting equipment

Product Description

Tenite™ cellulosic plastics are noted for their excellent balance of properties - toughness, hardness, strength, surface gloss, clarity, and a warm feel. The mechanical properties of Tenite™ cellulosic plastics differ with plasticizer levels. Lower plasticizer content yields a harder surface, higher heat resistance, greater rigidity, higher tensile strength, and better dimensional stability. Higher plasticizer content increases impact strength. Tenite™ cellulosic plastics are available in natural, clear, selected ambers or smoke transparents and black translucents. Color concentrates are available in let-down ratios from 10:1 to 40:1. Tenite™ Cellulose Acetate Butyrate 572-12 contains an odor mask lubricant and an ultra-violet inhibitor(UVI). It has a plasticizer level of 12%.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Plasticizer		12 %
Specific Gravity	D 792	1.19
Mechanical Properties		
Tensile Stress @ Yield	D 638	33.8 MPa (4900 psi)
Tensile Stress @ Break	D 638	34.0 MPa (4900 psi)
Elongation @ Break	D 638	23 %
Flexural Modulus	D 790	1300 MPa (1.90 x 10 ⁵ psi)
Rockwell Hardness, R Scale	D 785	87
Izod Impact Strength, Notched		
@ 23°C (73°F)	D 256	348 J/m (6.5 ft·lbf/in.)
@ -40°C (-40°F)	D 256	98 J/m (1.8 ft·lbf/in.)
Permanence Properties		
Water Absorption, 24 h immersion	D 570	1.3 %
Weight Loss on Heating [72 hours @ 80°C (176°F)]	D 707	0.4 %
Thermal Properties		
Deflection Temperature ^d		
@ 0.455 MPa (66 psi)	D 648	83 °C (181 °F)
@ 1.82 MPa (264 psi)	D 648	78 °C (172 °F)

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits are in SI or US customary units.

^dConditioned 4 hours @ 70°C (158°F)

Comments

Properties reported here are preliminary data from limited production. Eastman makes no representation that the

material in any particular shipment will conform exactly to the values given.

Characteristics

Formula 572 - UVI; odor mask

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