

Product Data Sheet

Tenite™ Butyrate 572E3720012, Clear, Trsp

Application/Uses

- Films
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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 transluents. 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 ^b Method	Typical Value, Units ^c
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.)

Thermal Properties

Deflection Temperature ^d		
@ 1.82 MPa (264 psi)	D 648	78°C (172°F)
@ 0.455 MPa (66 psi)	D 648	83°C (181°F)

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%

- a Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.*
- b Unless noted otherwise, the test method is ASTM.*
- c Units are in SI or US customary units.*
- d Conditioned 4 hours @ 70°C (158°F)*

Characteristics

Formula 572 - UVI; odor mask

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.

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