

Product Data Sheet

Tenite™ Butyrate 572A1V95316 Smoke, Trsp

Application/Uses

- Molded parts

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 572-16 contains an odor mask lubricant and an ultra-violet inhibitor (UVI). It has a plasticizer level of 16%.

Typical Properties

Property ^a	Test ^b Method	Typical Value, Units ^c
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Plasticizer		16%
Specific Gravity	D 792	1.19

Mechanical Properties

Tensile Stress @ Yield	D 638	30.3 MPa (4400 psi)
Tensile Stress @ Break	D 638	31.0 MPa (4500 psi)
Elongation @ Break	D 638	26%
Flexural Modulus	D 790	1162 MPa (1.70 x 10 ⁵ psi)
Rockwell Hardness, R Scale	D 785	60
Izod Impact Strength, Notched		
@ 23°C (73°F)	D 256	531 J/m (9.9 ft·lbf/in.)
@ -40°C (-40°F)	D 256	102 J/m (1.9 ft·lbf/in.)

Thermal Properties

Deflection Temperature ^d		
@ 1.82 MPa (264 psi)	D 648	67°C (153°F)
@ 0.455 MPa (66 psi)	D 648	79°C (174°F)

Permanence Properties

Water Absorption, 24 h immersion	D 570	1.2%
Weight Loss on Heating [72 hours @ 80°C (176°F)]	D 707	0.9%

- 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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