

Technical Data Sheet

Tenite™ Butyrate 285A2R30020 Natural Trsp

Applications

- Commercial housewares
- Consumer housewares-nfc
- 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™ cellulose 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 285-20 has a plasticizer level of 20% and contains an odor mask.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Plasticizer		20 %
Specific Gravity	D 792	1.17
Mechanical Properties		
Tensile Stress @ Yield	D 638	21.4 MPa (3100 psi)
Tensile Stress @ Break	D 638	27.6 MPa (4000 psi)
Elongation @ Break	D 638	50 %
Flexural Modulus	D 790	965 MPa (1.40 x 10 ⁵ psi)
Flexural Yield Strength	D 790	27.6 MPa (4000 psi)
Rockwell Hardness, R Scale	D 785	12
Izod Impact Strength, Notched		
@ 23°C (73°F)	D 256	384 J/m (7.2 ft·lbf/in.)
@ -40°C (-40°F)	D 256	112 J/m (2.1 ft·lbf/in.)
Permanence Properties		
Water Absorption, 24 h immersion	D 570	1.2 %
Soluble Matter Loss	D 570	0.1 %
Weight Loss on Heating [72 hours @ 80°C (176°F)]	D 707	1.0 %
Thermal Properties		
Deflection Temperature ^d		
@ 0.455 MPa (66 psi)	D 648	72 °C (162 °F)
@ 1.82 MPa (264 psi)	D 648	58 °C (136 °F)
Vicat Softening Temperature ^d	D 1525	92 °C (198 °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)

Characteristics

Formula 285 - odor mask.

Comments

Properties reported here are based on limited testing. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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