



# Technical Data Sheet Tenite™ Propionate 360E0096914 Natural Trsp

## **Applications**

- Consumer housewares-nfc
- Diffuser film
- Medical devices
- Ophthalmics
- Profiles

## **Product Description**

Tenite<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> cellulosic plastics are available in natural, clear, selected ambers or smoke transparents and black translucent. Color concentrates are available in let-down ratios from 10:1 to 40:1. Tenite<sup>™</sup> Cellulosic Acetate Propionate 360-14 has a plasticizer level of 14%.

## **Typical Properties**

Test Method <sup>b</sup>	Typical Value, Units <sup>c</sup>
	14 %
D 792	1.2
D 638	29.3 MPa (4300 psi)
D 638	31.7 MPa (4600 psi)
D 638	45 %
D 790	1345 MPa (1.95 x 10 <sup>5</sup> psi)
D 790	38.3 MPa (5600 psi)
D 785	73
D 256	475 J/m (8.9 ft·lbf/in.)
D 256	115 J/m (2.2 ft·lbf/in.)
perties	
D 542	1.46-1.49
E 308	>90 %
D 1003	<8.5 %
DSC	1.26-1.67 kJ/kg⋅K (0.301-0.399 Btu/lb⋅°F)
C 177	0.17-0.33 W/m·K (1.2-2.3
	Btu·in./h·ft <sup>2</sup> ·°F)
D 696	11-17 x 10 <sup>-5</sup> /°C (mm/mm⋅°C) (6-9
	x 10 <sup>-5</sup> /°F (in./in.·°F))
D 955	0.2-0.6 %
D 149	11.8-18.7 kV/mm (300-475 V/mil)
D 150	3.3-3.8
	D 792  D 638 D 638 D 638 D 790 D 790 D 790 D 785  D 256 D 256 Perties  D 542 E 308 D 1003  DSC C 177 D 696  D 955 D 149

1 MHz	D 150	0.01-0.15
Volume Resistivity	D 257	10 <sup>13</sup> -10 <sup>15</sup> ohm∙cm
Permanence Properties		
Water Absorption, 24 h immersion	D 570	1.5 %
Soluble Matter Loss	D 570	0.1 %
Weight Loss on Heating		
[72 hours @ 80°C (176°F)]	D 1562	0.9 %
Thermal Properties		
Deflection Temperature <sup>d</sup>		
@ 0.455 MPa (66 psi)	D 648	82 °C (179 °F)
@ 1.82 MPa (264 psi)	D 648	74 °C (165 °F)
Vicat Softening Temperature <sup>d</sup>	D 1525	94 °C (202 °F)

<sup>&</sup>lt;sup>a</sup>Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

#### **Characteristics**

Formula 360 - base; Complies with FDA food contact regulations when supplied in FDA color numbers.

#### Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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<sup>&</sup>lt;sup>b</sup>Unless noted otherwise, the test method is ASTM.

<sup>&</sup>lt;sup>C</sup>Units are in SI or US customary units.

<sup>&</sup>lt;sup>d</sup>Conditioned 4 hours @ 70°C (158°F)

e1.52-mm (0.06 in.) thickness