

## Eastman Tenite 350A0096914 Propionate Natural

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Cellulosic , Cellulose Acetate Propionate, Molded

### Material Notes:

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 translucent. Color concentrates are available in let-down ratios from 10:1 to 40:1. Tenite Cellulose Acetate Propionate 350-14 has a plasticizer level of 14%. It meets FDA requirements for certain food-contact applications when supplied in specific FDA color numbers. Applications/Uses Medical devices

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Tenite-350A0096914-Propionate-Natural.php](http://www.lookpolymers.com/polymer_Eastman-Tenite-350A0096914-Propionate-Natural.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	1.5 %	1.5 %	24h Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Collected Volatile Condensable Material	0.60 %	0.60 %	Weight loss on heating, 72hrs, 80°C; ASTM D707

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.5 MPa	5290 psi	ASTM D638
Tensile Strength, Yield	31.7 MPa	4600 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Yield Strength	41.4 MPa	6000 psi	ASTM D790
Flexural Modulus	1.517 GPa	220.0 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm @Temperature -40.0 °C	1.50 ft-lb/in @Temperature -40.0 °F	ASTM D256
	4.16 J/cm @Temperature 23.0 °C	7.79 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	110 - 170 µm/m-°C @Temperature 20.0 °C	61.1 - 94.4 µin/in-°F @Temperature 68.0 °F	ASTM D696

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.170 - 0.330 W/m-K	1.18 - 2.29 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	84.0 °C	183 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.0 °C	169 °F	ASTM D648
Vicat Softening Point	100 °C	212 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.46 - 1.49	1.46 - 1.49	n <sub>D</sub> ; ASTM D542
Haze	≤ 8.5 %	≤ 8.5 %	ASTM D1003
Transmission, Visible	≥ 90 % @Thickness 1.52 mm	≥ 90 % @Thickness 0.0598 in	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 - 1.00e+15 ohm-cm	1.00e+13 - 1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.3 - 3.8 @Frequency 1e+6 Hz	3.3 - 3.8 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	11.8 - 18.7 kV/mm	300 - 475 kV/in	ASTM D149
Dissipation Factor	0.010 - 0.15 @Frequency 1e+6 Hz	0.010 - 0.15 @Frequency 1e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Plasticizer, %	14	
Soluble Matter Loss, %	0.1	ASTM D570

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China