

Eastman Tenite Butyrate 485A2R30016 Natural Cellulose Acetate Butyrate

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

Material Notes:

Plasticizer 16%. Weight loss on heating = 0.8% per ASTM D 707. Soluble matter loss = 0.1% per ASTM D 570. 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 translucents. Color concentrates are available in let-down ratios from 10:1 to 40:1. TENITE Cellulose Acetate Butyrate 485-16 contains an odor mask and an ultra-violet inhibitor(UVI). It has a plasticizer level of 16%. Applications: Housewares; Recreational; Tool handles; Toys/Sporting goods Formula 485 - odor mask; UVI. 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. Information provided by Eastman Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Tenite-Butyrate-485A2R30016-Natural-Cellulose-Acetate-Butyrate.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Water Absorption	1.3 %	1.3 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	40	40	ASTM D785
Tensile Strength, Ultimate	33.8 MPa	4900 psi	ASTM D638
Tensile Strength, Yield	25.5 MPa	3700 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Yield Strength	33.1 MPa	4800 psi	ASTM D790
Flexural Modulus	1.103 GPa	160.0 ksi	ASTM D790
Izod Impact, Notched	3.31 J/cm	6.20 ft-lb/in	ASTM D256
	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 - 17.0 μm/m-°C	6.11 - 9.44 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.485 J/g-°C	0.357 BTU/lb-°F	USC
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	77.0 °C	171 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	64.0 °C	147 °F	Conditioned 4 hours @ 70°C (158°F); ASTM D648
Vicat Softening Point	96.0 °C	205 °F	Conditioned 4 hours @ 70°C (158°F); ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.475	1.475	ASTM D542
Haze	<= 8.5 % @Thickness 1.52 mm	<= 8.5 % @Thickness 0.0598 in	ASTM D1003
Transmission, Visible	>= 90 % @Thickness 1.52 mm	>= 90 % @Thickness 0.0598 in	ASTM E308

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 - 1.00e+15 ohm-cm	1.00e+13 - 1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.55 @Frequency 1e+6 Hz	3.55 @Frequency 1e+6 Hz	ASTM D 150
Dielectric Strength	15.25 kV/mm	387.4 kV/in	ASTM D149
Dissipation Factor	0.080 @Frequency 1e+6 Hz	0.080 @Frequency 1e+6 Hz	ASTM D150

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