Tenite™ Butyrate 485E3720008 Clear, Trsp

Cellulose Acetate Butyrate

Eastman Chemical Company

Message:

Tenite™ cellulosic plastics are noted for their excellent balance of properties including 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 485-08 contains an odor mask and an ultra-violet inhibitor(UVI). It has a plasticizer level of 8%.

General Information	
Additive	Plasticizer (8%) UV Stabilizer
Features	Good Strength Good Toughness Good UV Resistance High Clarity High Gloss High Hardness Low to No Odor Plasticized Renewable Resource Content Soft
Uses	Sporting Goods Toys
Appearance	Amber Black Clear/Transparent Natural Color
Forms	Pellets

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.5	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	88		ASTM D785

Mechanical	Nominal Value	Unit	Test Method

Tensile Strength			ASTM D638
Yield, 23°C	37.2	MPa	
Break, 23°C	47.6	MPa	
Tensile Elongation (Break, 23°C)	50	%	ASTM D638
Flexural Modulus (23°C)	1590	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	51.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	91	J/m	
23°C	200	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load [1]			ASTM D648
0.45 MPa, Annealed	89.0	°C	
1.8 MPa, Annealed	79.0	°C	
Vicat Softening Temperature [2]	109	°C	ASTM D1525
CLTE - Flow (23°C)	1.1E-4 to 1.6E-4	cm/cm/°C	ASTM D696
Specific Heat (23°C)	1260 to 1670	J/kg/°C	DSC
Thermal Conductivity [3] (23°C)	0.25	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+13 to 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (23°C)	12 to 19	kV/mm	ASTM D149
Dielectric Constant (23°C)	3.30 to 3.80		ASTM D150
Dissipation Factor (23°C)	0.010 to 0.15		ASTM D150
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.460 to 1.490		ASTM D542
Transmittance (1520 µm)	> 90.0	%	ASTM E308
Haze (1520 µm)	< 8.5	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Soluble Matter Loss (23°C)	0.10	%	ASTM D570
Weight Loss on Heating - 72 hrs (80°C)	0.30	%	ASTM D707
NOTE			
1.	Conditioned 4 hours at 70°C (158°F)		
2.	Conditioned 4 hours at 70°C (158°F)		
3.	Range: 0.17 to 0.33		

Recommended distributors for this material

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