

Tenite™ Butyrate 285A2R30018 Natural, Trsp

Cellulose Acetate Butyrate
Eastman Chemical Company

Message:

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 transluents. Color concentrates are available in let-down ratios from 10:1 to 40:1. Tenite™ Cellulose Acetate Butyrate 285-18 has a plasticizer level of 18% and contains an odor mask.

General Information			
Additive	Plasticizer (18%)		
Features	Good Strength		
	Good Toughness		
	High Clarity		
	High Gloss		
	High Hardness		
	Plasticized		
	Renewable Resource Content		
	Soft		
Uses	Eyeglass Frames		
	Eyeglasses		
	Safety Equipment		
Appearance	Amber		
	Black		
	Clear/Transparent		
	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Water Absorption (23°C, 24 hr)	1.3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	26		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	23.5	MPa	
Break, 23°C	30.7	MPa	
Tensile Elongation (Break, 23°C)	50	%	ASTM D638

Flexural Modulus (23°C)	1030	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	30.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	110	J/m	
23°C	360	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹			ASTM D648
0.45 MPa, Annealed	75.0	°C	
1.8 MPa, Annealed	61.0	°C	
Vicat Softening Temperature ²	94.0	°C	ASTM D1525
Additional Information	Nominal Value	Unit	Test Method
Soluble Matter Loss (23°C)	0.10	%	ASTM D570
Weight Loss on Heating - 72 hrs (80°C)	0.90	%	ASTM D707
NOTE			

1. Conditioned 4 hours at 70°C (158°F)

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