

BURNING RATES OF TENITE BUTYRATE

Burning rates were run on commonly used Tenite Butyrate formulas by ASTM Designation D635-44 for testing flammability of plastics over 0.05 inches in thickness. In this test, the samples are burned over a screen that catches the burning drippings. The test is more severe than the practice of holding a flame to the sample with no support to catch the drip. Bars measuring 1/8-inch in thickness and 1/2-inch wide were used as burning specimens.

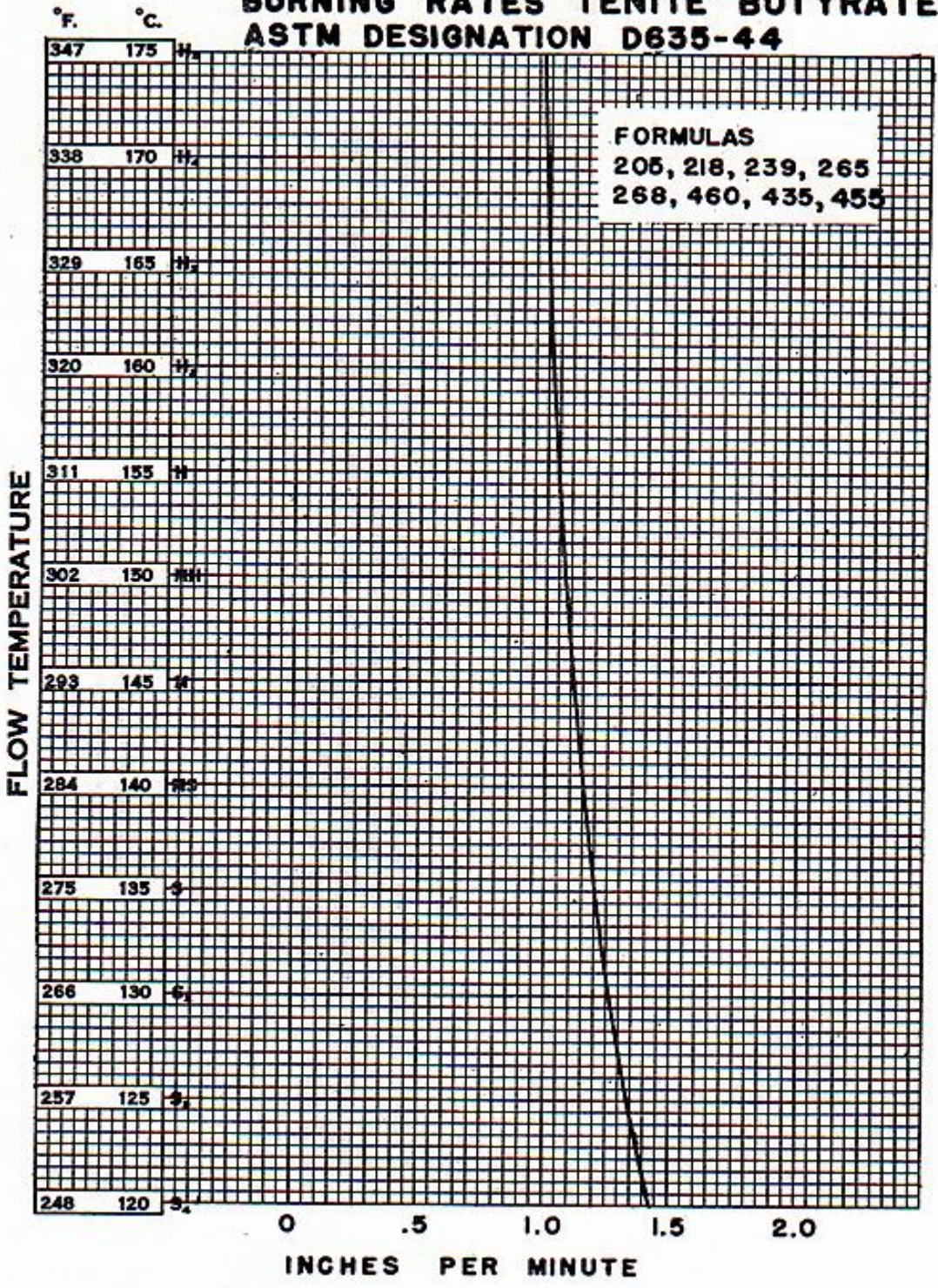
The chart shows the experimentally determined burning rates. The burning rates for all the Tenite Butyrate formulas are about the same.

Classification of Permissible Plastic Materials

Class A - A reinforced or unreinforced plastic which is self-extinguishing when tested in accordance with ASTM D635 (samples over 0.050 inch in thickness) or ASTM D568 (samples 0.050 inch and under in thickness).

Class B - A reinforced or unreinforced plastic which does not burn more rapidly than 2-5 inches per minute when tested in accordance with ASTM D635 (samples 0.50 inch and over in thickness); or which is not consumed in less than two minutes when tested in accordance with ASTM D568 (samples 0.050 inch and under in thickness).

BURNING RATES TENITE BUTYRATE ASTM DESIGNATION D635-44



BURNING RATE AND ELECTRICAL REQUIREMENTS

Burning rate of Tenite Butyrate as determined by ASTM 635-56T ranges from 0.75 "to 1.25 inches per minute. ASTM 635-56T is a newer, revised, version of ASTM 6[^]-kk; however, the attached information may be helpful.

EASTMAN CHEMICAL CO PERFORMANCE PLASTICS

PO BOX 1969, KINGSPORT TN 37692-1963

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Cellulose Acetate Butyrate (CAB), "Tenite", furnished as pellets

Color NC, CL	Min Thk (mm) 1.5	Flame Class HB	HWI -	HAI -	RTI Elec 50	RTI Imp 50	RTI Str 50
Comparative Tracking Index (CTI): -		Dielectric Strength (kV/mm): -		Inclined Plane Tracking (IPT): -		Volume Resistivity (10 ⁶ ohm-cm): -	
High-Voltage Arc Tracking Rate (HVTR): -		Dimensional Stability (%): -		High Volt. Low Current Arc Resis (D495): -			

NOTE - May be followed by A, C, E or G.

ANSI/UL 94 small-scale test pertain to building materials, furnishings and related construction materials used in elements and parts of end-product appliances, where the acceptability of the combination is intended by UL

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6 UL L.L.C.



IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	1.5	HB75 (NC, CL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-