

Consumer Product Safety Commission

§ 1505.51

| Material | Degrees C. | Degrees F. |
|--|------------|------------|
| Capacitors | (1) | (1) |
| Class 105 insulation on windings or relays, solenoids, etc.: | | |
| Thermocouple method ² | 90 | 194 |
| Resistance method | 110 | 230 |
| Class 130 insulation system | 110 | 230 |
| Insulation: | | |
| Varnished-cloth insulation | 85 | 185 |
| Fiber used as electrical insulation | 90 | 194 |

| | Class A | Class B | Class A | Class B |
|--|---------|---------|---------|---------|
| Insulation on coil windings of a.c. motors (not including universal motors) and on vibrator coils: | | | | |
| In open motors and on vibrator coils—thermocouple or resistance method ² | 100 | 120 | 212 | 248 |
| In totally enclosed motors—thermocouple or resistance method ² | 105 | 125 | 221 | 257 |
| Insulation on coil windings of d.c. motors and of universal motors: | | | | |
| In open motors: | | | | |
| Thermocouple method ² | 90 | 110 | 194 | 230 |
| Resistance method | 100 | 120 | 212 | 248 |
| In totally enclosed motors: | | | | |
| Thermocouple method ² | 95 | 115 | 203 | 239 |
| Resistance method | 105 | 125 | 221 | 257 |
| Phenolic composition ³ | | 150 | 302 | |
| Rubber- or thermoplastic-insulated wires and cords ³ | | 60 | 140 | |
| Sealing compound | | (4) | (5) | |
| Supporting surface while the toy is operating normally | | 90 | 194 | |
| Wood and other similar combustible material | | 90 | 194 | |

¹ If the capacitor has no marked temperature limit, the maximum acceptable temperature will be assumed to be 65 °C. (149 °F.) for an electrolytic type and 90 °C. (194 °F.) for other than an electrolytic type.
² The temperature indicated refers to the hottest spot on the outside surface of the coil measured by the thermocouple method.
³ The limitations on rubber- and thermoplastic-insulated wires and cords and on phenolic composition do not apply if the insulation or the phenolic has been investigated and found to have special heat-resistant properties, or if the insulation meets the thermal requirements.
⁴ 40 less than melting point.
⁵ 104 less than melting point.

Subpart B—Policies and Interpretations

§ 1505.50 Stalled motor testing.

(a) § 1505.6(e)(4)(ii) requires that a motor-operated toy be tested with the motor stalled if the construction of the toy is such that any person can touch moving parts associated with the motor from outside the toy. The performance of the toy shall be considered unacceptable if, during the test, temperatures higher than those specified in § 1505.8 are attained or if temperatures higher than those specified for Type C surfaces in § 1505.7 are attained on any accessible surface of the motor.

(b) To determine if a moving part associated with the motor can be touched from outside the toy, the Commission staff will use a ¼-inch diameter rod, as referenced in § 1505.4(h)(1). If the rod, when inserted into openings in the toy, can touch any moving part associated with the motor, the toy will be tested with the motor stalled.

(c) The requirement that temperatures higher than those specified in § 1505.8 not be attained applies to those internal components which are described in § 1505.8. Additionally, temperatures of accessible surfaces shall not exceed those specified for Type C surfaces in § 1505.7.

(Secs. 2(q)(1)(A), 2(r), 3(e), 10(a), 74 Stat. 372, 378, 80 Stat. 1303-1304, 83 Stat. 187-189 (15 U.S.C. 1261, 1262, 1269); sec. 30(a), 86 Stat. 1231 (15 U.S.C. 2079(a)))

[43 FR 26428, June 20, 1978]

§ 1505.51 Hot surfaces.

(a) *Test probe.* Section 1505.6(g)(2) defines accessibility, for certain paragraphs, as the ability to reach a heated surface with a ¼-inch-diameter rod 3 inches long. To test for accessibility using this test probe, it shall be inserted no more than 3 inches into any opening in the toy. Unless the probe contacts a surface within 3 inches of the plane of the toy's opening, that surface is not accessible.