

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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Revised

PLASTIC MOLDINGS Methyl Methacrylate

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. **FORM:** Compression or injection moldings.
3. **APPLICATION:** This thermoplastic product is intended for applications requiring good dimensional stability and a high degree of optical clarity.
4. **TECHNICAL REQUIREMENTS:** (a) General.-

(1) **Color and Condition.-** Unless otherwise specified, a colorless, transparent product shall be furnished. The product shall be furnished transparent, translucent or opaque, as specified, and in the color as specified when so stipulated.

(2) **Weathering.-** When specified, a weathering test shall be conducted as agreed between the purchaser and the vendor.

(3) **Corrosion.-** The product shall not have a corrosive or other deleterious effect on other materials when exposed to conditions normally encountered in the operation of aircraft. Discoloration of metals shall not be considered objectionable.

(b) **Physical Properties.-** The product shall conform to the following requirements as received unless otherwise indicated:

	<u>Value</u>	<u>Test Method</u>
Tensile Strength, psi, min	5500	ASTM D638-44T
Impact Resistance, (Notched Izod) ft-lb per in. of notch, min	0.2	ASTM D256-43T, Method A
Specific Gravity, 77 F/77 F, max	1.20	ASTM D792-44T
Water Absorption (24-hr immersion), % Gain, max	0.6	ASTM D570-42
% Soluble Loss, max	0.1	
Distortion Under Heat (264 psi Fiber Stress), F, min	140	ASTM D648-45T
Flammability, in. per min, max	1.0	ASTM D635-44 ^a

^aSpecimens shall be 1/8 in. thick.

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