

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

Approved

ISO RECOMMENDATION R 870

PLASTICS

PREPARATION OF SPECIMENS
FOR OPTICAL TESTS ON PLASTICS MATERIALS
CASTING METHOD

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PLASTICS

PREPARATION OF SPECIMENS

FOR OPTICAL TESTS ON PLASTICS MATERIALS

CASTING METHOD

1. SCOPE

This ISO Recommendation describes a method for casting plastics specimens for optical tests.

NOTE. – The preparation of specimens for optical tests by moulding is the subject of ISO Recommendation R 869, *Plastics – Preparation of specimens for optical tests on plastics materials – Moulding method*.

2. APPARATUS

The type of mould recommended is shown in the Figure below. It consists of the following parts :

- (a) two plates of glass with plane surfaces at least as good as those of photographic plates; a borosilicate glass resistant to thermal shock is recommended;
- (b) a stainless steel spacer about 4 mm thick;
- (c) a gasket of greater thickness than the spacer; the material used to make the gasket depends on the type of plastics material to be cast. In any case it should be of sufficient elasticity to compensate for the shrinkage of the plastics material;
- (d) two G-clamps to hold the plates together;
- (e) two plates, of metal or other rigid material, to be placed on either side of the glass plates to distribute the clamping pressure.

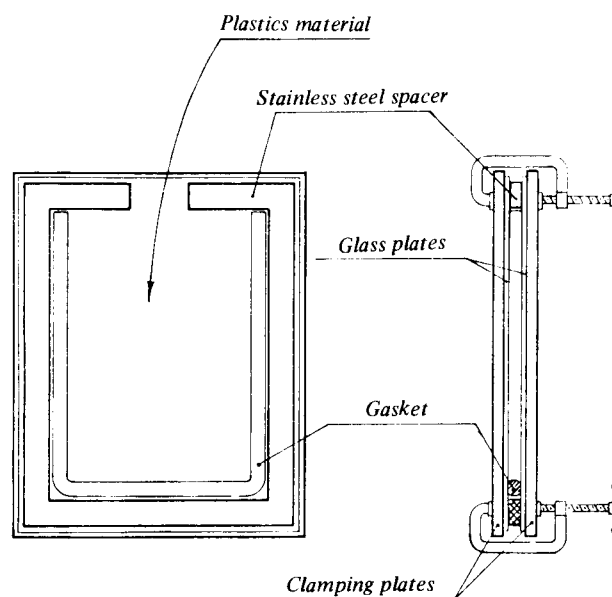


FIGURE – Mould for the preparation of test specimens for optical tests