

Sample Prep

Constant Thickness Film Maker

The Constant Thickness Film Maker System permits precision spectroscopic analysis of polymers by the formation of a thin film of reproducible thickness.

Designed to reduce sample preparation time and provide high sample throughput for routine analytical work as well as a convenient method for preparing small polymer samples for transmission or reflectance spectroscopy.

The High Temperature Film Maker is designed with integral heating and cooling systems and operates to a maximum temperature of 400°C. The standard unit which comes with independent cooling system is used with separate, optional, heated platens and has a maximum operating temperature of 300°C.

Both systems are designed for use in all Specac Atlas hydraulic presses but can be used with most laboratory presses.

Film thicknesses can be changed by selection of different hardened steel spacers (15, 25, 50, 100, 250 and 500 microns) which are fitted between two optically polished platens - samples are pressed onto a non-stick aluminum foil backing material, while excess sample runs into a trough so that thickness is not affected.

The sample is then cooled before removal and analysis. Total preparation time is around 10 to 15 minutes, depending on sample.



Constant Thickness Film Maker (GS15640)



High Temperature Constant Thickness Film Maker (GS15800)

Key Features

- Reproducible film thicknesses
- Quantitative/qualitative applications
- Quick and easy to use
- No chemicals necessary

Illustrations, descriptions and specifications in this datasheet were correct at the time of going to press. However, Specac's policy is one of continuous product development and we reserve the right to change descriptions and specifications at any time.

For the latest details please contact your local Specac office or representative.

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Ordering Information

Film Maker Systems

GS15640 Standard Constant Thickness Film Maker
Includes: Sample pressing platens with 15, 25, 50, 100, 250 and 500 micron spacer rings, sample cooling system, aluminum foil backing discs (200) and Specacard film holders (20).

GS15800 High Temperature Constant Thickness Film Maker
Includes: Fully integrated film maker with 15, 25, 50, 100, 250 and 500 micron spacer rings, heating and cooling system with digital temperature controller, aluminum foil backing discs (200) and Specacard film holders (20).

Film Maker Kits

GS15631 Constant Thickness Film Maker Kit I
Includes: Standard Constant Thickness Film Maker (GS15640) and a set of Heated Platens with digital temperature controller (GS15515).

GS15633 Constant Thickness Film Maker Kit II
Includes: Standard Constant Thickness Film Maker (GS15640), a set of Heated Platens with digital temperature controller (GS15515) and 15 ton Manual Hydraulic Press (GS15011).

GS15810 High Temperature Constant Thickness Film Maker Kit II
Includes: High Temperature Constant Thickness Film Maker System (GS16800) and 15 ton Manual Hydraulic Press (GS15011).

Please specify voltage and country of use

Spares and Consumables

GS15627 Aluminum foils backing discs (200)
GS03800 Specacard sample holders, 10mm aperture
GS15621 Replacement cooling block chamber for the Standard Constant Thickness Film Maker
GS15622 Replacement polished platen assemblies for the Standard Constant Thickness Film Maker
GS15629 Replacement spacer rings for the Standard Constant Thickness Film Maker (set of 6, A-F)
GS15805 Replacement spacer rings for the High Temperature Constant Thickness Film Maker (set of 6, A-F)

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