

Procedural Introduction

ASTM Compliance of Glass to be used for Candles

The ASTM Standard for Candle Glass is not a testing method to be used by candle makers; it is a controlled process to be used by glass manufacturers. Compliance to the standard for a batch of candles cannot be established by testing a few samples from a glass run done in the past. Instead the candle maker must be certain that the glass maker has followed the ASTM process in making the glass and maintained the detailed documentation of no failures while performing that process.

The documentation that established compliance is created by following the sampling method in C-224 to pull glass samples during the glass manufacturing batch run. Those samples are then examined using a polariscope per C-148 and tested for thermal shock resilience per C-149. To be suitable for use as a candle vessel, there cannot be any failures of any samples in either test.

Every batch of glass must be tested per this F-2179 process, not just the first one. If any glass in a run fails, then everything that went through annealing in the Lehr during that batch (using the same Lehr settings) fails. The annealing process must be checked and corrected until a batch is produced with zero failures.

Candle manufacturers/retailers may choose to have a few pieces of glass from their batch tested independently to give them further reassurance that the glass maker was diligent, but this later testing does not confirm ASTM compliance of the batch. Only compliance to the procedure by the glass manufacturer does that.

If you would like further assistance in understanding the standards around making safer candles and implementing them in your organization, contact us about our consulting services.



(614) 245-8451 info@renegadecandles.com

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1 | Scope Previous Next | Top Bottom 1:1 This specification covers the minimum requirements for annealed soda-lime-silicate glass containers when the producer knows the containers are to be used as candle one or more combustible wicks supported by a material that constitutes a fuel which is solid, semi-solid, or quasi-rigid at room temperature, 68° to 80°F (20 to ... More

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