



MRF Glass Certification Program

Measuring Glass Purity Instructions:

To apply for the MRF Glass Certification, GRC asks applicants to take in-house samples of the glass you capture in your MRF at various times of the day. Follow the Sampling Process steps on the next page; then, take a photo of your sample to upload with your MRF Certification Application or email the photo to info@glassrecycles.org. An independent, non-competitive panel of judges will score your glass samples along with the results of the MRF Glass Application.

THIS TEST MEASURES THE NET YIELD OF +3/8" GLASS SUITABLE FOR GLASS-TO-GLASS APPLICATIONS

Supplies needed:

- 3/8" mesh testing sieve/hand screen
- Personal protective equipment (e.g., hat, gloves, glasses, apron, long-sleeve shirt, safety vest and shoes)
- Three empty pails, boxes or other containers
- Three 10-pound samples of glass



Sample Photo



Sampling Process:

SAFETY

Ensure that proper and appropriate PPE is worn

WEIGHING THE SAMPLE

1. Take a minimum of three sample scoops from different parts of the processed glass pile, approximately half of the way up the side of the pile. Samples should be taken at three different times of the shift, at least one hour apart.
2. Use an empty pail or box and dump the samples into the pail/box.
3. Each sample should be at least five (5) pounds.
 - a. Weigh and record the total sample weight;
 - b. Subtract the pail/box weight (tare weight) from the total weight to get the net weight of the sample.
4. Using the MRF audit table, empty the entire sample on the tabletop and inspect carefully for sharp and other obvious contaminants. Remove.
5. You are now ready to move to the separation test.

SEPARATION TEST FOR GLASS QUALITY FROM MRF SYSTEM

The separation test is designed to separate +3/8" material from -3/8" material and identify contaminants. It uses a simple testing wire mesh sieve (3/8") screen to measure components of the weighed glass samples. Audit test screens come in several varieties (please see pictures).

1. The other two (2) empty, weighed pails or boxes or containers are needed. Tare weights should be recorded for these. It needs to be close to the same size as the testing sieve/hand screen device used.
2. Place the sieve on one of the other buckets. Scoop the sample into the sieve and shake it so that -3/8" material falls through the sieve screen openings and captures useable glass which does not go through the 3/8" screen.
3. At the end of each scoop:
 - a. Remove visible non-glass residues (light paper, shred, etc.) from the +3/8" separated material by hand or vacuum, pulling out all contaminants (plastic, paper, rocks, ceramics, milk glass, metals, etc.) and discard.
 - b. Empty +3/8" from the top of the sieve screen and place into another weighed empty bucket.
4. Inspect and remove non-glass residue (NGR) until only +3/8" glass remains.
 - a. If there is a label stuck to glass, keep the glass.
 - b. If bottle caps contain glass, keep the glass.

WEIGHING THE RESULTS OF THE SEPARATION TEST

Place +3/8" glass material in one pail/box and obtain the net weight

Data Chart				
Sample	Gross	Tare	Net	%
>3/8"				
<3/8"				
NRG				
Total				100%

REPORTING RESULTS FOR CERTIFICATION

Now that the sampling is complete, the application is easy to complete!

1. Fill out the [application](#).
2. Attach sample photos labeled to identify which sample is represented to the application or email your sample photos to info@glassrecycles.org.
 - a. The following spreadsheet can be used to track weights:
https://docs.google.com/spreadsheets/d/14ufCrx9erMNM-zfnTpPE_yiR3DOyKlrrNVQjdnR8iVk/edit?usp=sharing