The following materials were used to create the Grapes and Vines photographed:

CPI Mold LF117

Glass Weight for the Grapes: 1.75 oz
Glass Weight for the Vines: 3/4 oz
(weigh the grapes and their frit and then the twigs and their frit separately to ensure each has correct measurements)

Glass used for the Purple grapes:
F1 Colbalt Blue
F2 Red Opal
F2 Medium Blue
F3 Colbalt Translucent

Glass used for the Green grapes:
F1 Medium Amber
F2 Medium Opal
F2 Pastel Green
F3 Citron

Vines
F1 Deep Aqua
F2 Medium Amber
F3 Terracotta

General Instructions:
This tutorial can be used as a guide to make LF117, Grapes and Vines. The artist can also choose to use any assortment of frit colors and combinations. Begin by treating the mold with the Boron Nitride spray in a ventilated area. Several light coats with a short waiting period between coats is preferable to one heavy coat. Shake the can well before use and hold the can upright while using to assure proper distribution of product. It is important to make sure to turn the mold at various angles to make sure to coat the mold wall. (For more information on the use of this product http://mr-97.com/info/).

Before adding frit to the mold, place the mold on a scale and weigh it. The weight of the frit required for the grapes is 1.75oz. The weight of frit the twigs require is 1/2 oz. Therefore weigh each separately.

To make the Purple Grapes:
Use a powder sifter to sift F1 Colbalt Blue frit into low areas of the center of the grapes (image 1). Then sprinkle a little F2 Red Opal on top of the F1 Colbalt Blue (image 2). Add F2 Medium Blue (image 3) to cover the bottom of the grape cavities up to the voids between the grapes. Fill the grape cavities with F3 Colbalt Translucent until the mold holds 1.75 oz (image 4) of frit.

To make the Green Grapes:
Use a powder sifter to sift F1 Medium Amber frit into low areas of the center of the grapes (image 5). Then sprinkle a little F2 Almond Opal on top of the F1 Medium Amber (image 6). Add F2 Pastel Green until the bottom of the grape cavities are filled up to the voids between the grapes (image 7). Lastly place the mold onto a scale and cover the grapes with F3 Citron until the mold holds 1.75 oz. of frit (image 8).
To make the Vines:
Lightly sprinkle F1 Deep Aqua into the creases of the vines (image 9 & 10). Add F2 Medium Amber (image 11) followed by F3 Terracotta (image 12) until the mold holds 3/4 oz of frit in the vine cavities.

Place the project in a kiln and fire using the firing schedule given in Table 1.

After the glass is fused in the mold, invert the mold to release the grapes and vines. In some cases, Boron nitride spray residue will be on areas of the glass. To remove the residue, scrub the glass with a stiff brush under running water.

To add the fused grapes, leaves and vines fused glass projects (image 13), arrange the pieces in a pleasing pattern on prefused glass blanks. Place the project in a kiln and tack fire the pieces to the fused blank using the firing schedule given in table 1 choosing the 1400 degree working temperature given for “tack” in segment 4. The project can then be slumped into a slump mold using the same firing schedule if you skip segments 3 and 4 and go straight to the annealing stages found in segment 5 and 6.

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