[0038a] In one aspect, the present disclosure provides a method of forming clear glass comprising

mixing raw materials, wherein the raw materials comprise cullet, sand, soda ash, salt cake, limestone and dolomite, wherein the dolomite comprises:

SiO_2	0 to 5 wt. %
Na_2O	0 to 1 wt. %
CaO	30 to 35 wt. %
MgO	15 to 25 wt. %
Al_2O_3	0 to 1 wt. %
SO_3	0 to 1 wt. %
Fe_2O_3	0 to less than 0.02 wt. %

melting the raw materials to form molten glass;

flowing the molten glass onto a molten tin bath; moving the molten glass on the surface of the molten tin bath while controllably cooling the molten glass and applying forces to the molten glass to form a glass of a desired thickness and a desired width; and

removing the glass from the molten bath,

wherein the dolomite is a low iron dolomite, wherein the raw materials comprise between 5 to 20 wt. % of the dolomite, and wherein the glass has a redox ratio (as expressed as FeO/Fe_2O_3) in the range of 0.30 to 0.55.

[0038b] In another aspect, the present disclosure provides a glass composition comprising

SiO_2	65 to 75 wt. %
Na_2O	10 to 20 wt. %
K_2O	0 to 5 wt. %
CaO	5 to 15 wt. %
MgO	2 to 10 wt. %
Al_2O_3	0 to 5 wt. %
SO_3	0 to 0.5 wt. %
Cr_2O_3	0.00003 to 0.001 wt. %
Fe_2O_3	0.02 to 0.07 wt. %
FeO	0.005 to 0.03 wt. %
Redox (FeO/Fe_2O_3)	0.2 to 0.6

THE INVENTION CLAIMED IS

1. A method of forming clear glass comprising

mixing raw materials, wherein the raw materials comprise cullet, sand, soda ash, salt cake, limestone and dolomite, wherein the dolomite comprises:

SiO_2	0 to 5 wt. %
Na_2O	0 to 1 wt. %
CaO	30 to 35 wt. %
MgO	15 to 25 wt. %
Al_2O_3	0 to 1 wt. %
SO_3	0 to 1 wt. %
Fe_2O_3	0 to less than 0.02 wt. %

melting the raw materials to form molten glass;

flowing the molten glass onto a molten tin bath; moving the molten glass on the surface of the molten tin bath while controllably cooling the molten glass and applying forces to the molten glass to form a glass of a desired thickness and a desired width; and

removing the glass from the molten bath,

wherein the dolomite is a low iron dolomite, wherein the raw materials comprise between 5 to 20 wt. % of the dolomite, and wherein the glass has a redox ratio (as expressed as FeO/Fe_2O_3) in the range of 0.30 to 0.55.

2. The method of claim 1, wherein the raw materials are present in the following amounts:

Cullet	0 to 15 wt. %
Sand	max 65 wt. %
Dolomite	5 to 20 wt. %
Salt Cake	0.2 to 1.0 wt. %
Soda Ash	13 to 23 wt. %

3. The method of any of claim 1, wherein the sand comprises:

SiO_2	95 to 100 wt. %
Na_2O	0 to 1 wt. %

CaO	0 to 0.5 wt. %
MgO	0 to 1 wt. %
Al_2O_3	0 to 1 wt. %
SO_3	0 to 1 wt. %
Fe_2O_3	0 to 1 wt. %

4. The method of claim 1, wherein the salt cake comprises:

SiO_2	0 to 1 wt.%
Na_2O	50 to 75 wt.%
CaO	0 to 1 wt.%
MgO	0 to 1 wt.%
Al_2O_3	0 to 1 wt.%
SO_3	0 to 1 wt.%
Fe_2O_3	0 to 1 wt.%

5. The method of claim 1, wherein the cullet comprises:

SiO_2	65 to 75 wt.%
Na_2O	10 to 20 wt.%
CaO	5 to 15 wt.%
MgO	0 to 5 wt.%
Al_2O_3	0 to 5 wt.%
SO_3	0 to 1 wt.%
Fe_2O_3	0 to 1 wt.%

6. The method of claim 1, wherein the limestone comprises:

SiO_2	0 to 5 wt.%
Na_2O	0 to 1 wt.%
CaO	40 to 65 wt.%
MgO	10 to 30 wt.%
Al_2O_3	0 to 1 wt.%
SO_3	0 to 1 wt.%

Fe_2O_3	0 to 0.5 wt.%

7. The method of claim 1, wherein the soda ash comprises:

SiO_2	0 to 1 wt.%
Na_2O	40 to 70 wt.%
CaO	0 to 1 wt.%
MgO	0 to 1 wt.%
Al_2O_3	0 to 1 wt.%
SO_3	0 to 1 wt.%
Fe_2O_3	0 to 1 wt.%

8. The method of claim 1, wherein the raw materials further comprise coal or graphite.

9. The method of claim 8, wherein the coal or graphite is in a range of 0.01 to 0.3 wt. %.

10. The method of claim 8, wherein the coal or graphite comprises

SiO_2	0 to 1 wt. %
Na_2O	0 to 1 wt. %
CaO	0 to 1 wt. %
MgO	0 to 1 wt. %
Al_2O_3	0 to 1 wt. %
SO_3	0 to 1 wt. %
Fe_2O_3	0 to 5 wt. %

11. A glass composition comprising

SiO_2	65 to 75 wt. %
Na_2O	10 to 20 wt. %
K_2O	0 to 5 wt. %
CaO	5 to 15 wt. %
MgO	2 to 10 wt. %
Al_2O_3	0 to 5 wt. %
SO_3	0 to 0.5 wt. %

Cr_2O_3	0.00003 to 0.001 wt. %
Fe_2O_3	0.02 to 0.07 wt. %
FeO	0.005 to 0.03 wt. %
Redox (FeO/Fe_2O_3)	0.2 to 0.6

wherein the glass composition is formed from a glass batch that comprises between 5 to 20 wt. % of a low iron dolomite wherein the low iron dolomite comprises a total iron content, expressed as Fe_2O_3 content, of less than 0.02 wt. %, and wherein the low iron dolomite comprises a total CaO content of between 30 and 35 wt. % and wherein the low iron dolomite comprises an MgO content of between 15 and 25 wt. %.

12. The glass composition of claim 11, wherein the redox is 0.30 to 0.46.

13. The glass composition according to claim 11, further comprising 50 to 500 ppm of TiO_2.

14. The glass composition of claim 11, further comprising a glass having the glass composition, wherein the glass comprises a luminous transmittance (L_{tc}) of at least 85%; an ultraviolet transmittance (Tuv) of less than 90%; an infrared transmittance (Tir) of less than 90%; a total solar energy transmittance (TSET) of at most 92%; a lightness value (L*) of 90 to 99; an a* color channel in the range of 1 to -2; a b* color channel of in the range of 1 to -1; a dominant wavelength of 470 to 525 nm; and a purity (Pe) of not more than 2%.

15. The glass composition of claim 11, further comprising 25 to 500 ppm of SnO_2.

16. The glass composition of 11, wherein the low content of iron oxide being modified in a glass batch is modified by low iron raw materials, said low iron raw materials comprising low iron sand, low iron limestone, low iron dolomite, low iron clear cullet or a combination there.