

EXPRESS GLASS PACKAGING™

Your Partner in Glass!

MAJOR GLASS TYPES & THEIR USES

Glass Type	Properties	Limitations	Uses
Soda Lime	Inexpensive; easy to melt and shape; most widely used glass	Poor durability; not chemically resistant; poor thermal shock resistance	Windows; bottles; light bulbs; jars
Lead Glass (often 20-30% Pb Oxide)	High density; brilliant; very easy to melt, shape, cut and engrave	Poor durability; easily scratched	Fine crystal radiation windows, TV tube parts
Borosilicate (usually 5-13% B ₂ O ₃)	Very good thermal shock resistance and chemical durability	Not suitable for long-term high temperature use and melt	Labware; kitchenware; special light bulbs; glass pipe; sealed beam headlights
Aluminosilicate (usually 5-10% Al ₂ O ₃)	Excellent thermal resistance; durability	More difficult to melt and shape than Borosilicate	Top-of-stove cookware; high quality fiberglass
High Silica (Vycor 96.5%; fused quartz 100%)	Outstanding thermal resistance	Difficult to make; very expensive	Spacecraft windows; labware; fiber optics

