DIFFERENT TYPES OF “LIGHT POLYSTYRENE”

EPS

~15-20 kg/m³

• (E= Expandable), made from expandable beads

XPS for insulation board

~30 kg/m³

• (X=Extrusion), direct gassing extrusion process

XPS for food packaging

~60 - 80 kg/m³  Low density

• same as above, but thinner sheet, thermoformed afterwards

XPS for food packaging

~500 - 700 kg/m³  High density

• direct gassing / chemically foamed process

Intrinsic density of crystal PS = 1050 kg/m³
XPS FOR FOOD PACKAGING

High heat crystal GPPS 1160 & GPPS 1070

Foam properties

- Density typically 60-80 kg/m³
- 1.5 mm to 4 mm thick
- Filled with air that replaced blowing gas like butane or pentane

Applications

- Clamshell packaging, Egg packaging
- Meat trays, juice & blood absorbent trays or pads
- MAP packaging, laminated with barrier film
- Anti slip tray matt, paper imitation

GPPS 1070\textsuperscript{NEW} with lower MFI for better foamed cells
XPS FOR FOOD PACKAGING

High heat crystal GPPPS 1160 & GPPS 1070 / High heat impact HIPS 3450

– Gas n-butane, n-pentane, iso-pentane OR chemical foaming agent

Foam properties

• Density ~700 kg/m³
• With laminated barrier film for MAP applications

Applications (large series)

• Poultry meat trays
• Deep draw trays with sharp corners
• Drinking cups