



QWIK GUIDE: EPS PACKAGING (EXPANDED POLYSTYRENE)

BACKGROUND

Dyplast has over *fifty years* of development and manufacturing experience with EPS (expanded polystyrene) packaging. Dyplast EPS is a lightweight, rigid foam insulation, and available in several compressive strengths. EPS foam is strong, yet has very low density and is available in a range of Types to provide control over weight, structural integrity, and cost effectiveness. Dyplast’s EPS offers unmatched quality, customization, and application resiliency. Product physical properties are independently verified, and our quality processes audited. Dyplast’s high production capacities, on-hand inventories, and just-in-time deliveries generate advantages for end-users while lowering per-unit costs.

EPS PACKAGING: FEATURES

Packaging, of course, requires varied materials, shapes, sizes, and approaches. Dyplast’s approach is to leverage our considerable existing EPS sheet manufacturing capacity, and readily-varied product characteristics - - typically density, strength, cushioning, and thermal insulating values. We understand that our customers each have specific needs and requirements that they have identified. Some require cushioning as the primary advantage, while others require superior insulation; and indeed others desire to minimize packaging handling prior to product insertion/fill. Dyplast’s mission is to help create the EPS package based on lined boxes for protection on fragile and temperature sensitive shipments. In general, Dyplast EPS packaging can offer:

- Economical customized sheets for cushioning, blocking and bracing
 - Variable dimensions, density, strengths, R-values, etc.
- Higher insulating values vs. cost than alternatives
 - Resulting in less gel packs/refrigerant
 - Longer shipping durations with given refrigeration
- Reduced container weight
- Durability, rigidity, and recyclability
- Fast time-to-market
- Compliance with key regulatory standards
- Water and moisture resistance



COMPREHENSIVE FABRICATION

Dyplast’s EPS block molding processes produce densities from 1 through 2.0 lb/ft³, meeting demanding requirements across a spectrum of EPS packaging applications. Down-stream fabrication capabilities include CAD and CNC equipment that can achieve unmatched flexibility and tolerance in blocks, sheets, edge routing, tapers, and virtually any shape - - without voids.

Physical Properties	English Units	EPS 15 or “TYPE I”	EPS 19 or “TYPE VIII”	EPS 22 or “TYPE II”	EPS 29 or “TYPE IX”
Density, minimum	lb/ft ³	0.9	1.15	1.35	1.8
Thermal resistance- R-Value @ 1 inch at 75F	hr·ft ² ·°F/BTU	3.85	3.92	4.17	4.35
Compressive Strength (10% Deformation)	psi	10-14	13 - 18	15 - 21	25 - 33

Call us to discuss you packaging needs!