

# ZOTEFOAMS PLC SELECTION GUIDE

## APPLICATIONS

Our foams are used in a wide variety of applications. PLASTAZOTE® and EVAZOTE® can also be used as an effective replacement for materials such as rubberised hair, felt, neoprene, EPS, natural rubber, polyurethane foam, PVC foam, wood composites, mineral wool etc.

The photographs show just some application areas where PLASTAZOTE® and EVAZOTE® are being used successfully.

New applications are continually being found where such features as strong colours, softness, stiffness, uniform cell structure or chemical inertness are of importance in the end product.

## SELECTION GUIDE

The guide shows some of the applications of PLASTAZOTE® and EVAZOTE® and the most commonly specified grade for the application. The list is for general guidance only and is not intended to be exhaustive.

Several specialist grades are also available for a number of applications.

The product code identifies both polymer type and density. For example, LD45 is 45 kg/m<sup>3</sup> (2.8lbs/ft<sup>3</sup>) LD polyethylene foam.

When you have identified the most suitable grades for your purpose, please ask your converter/distributor (or Zotefoams plc direct) for more detailed information concerning specifications, fabrication, samples, data sheets or any other information you require.

MP grades of Plastazote foam are based on Metalocene catalysed polyolefins.

Plastazote foam MP grades have excellent tear strength, tensile strength and improved elongation, resulting in high toughness and abrasion resistance. Plastazote foam MP grades also show good moulding characteristics.

The main application areas will be in the Sport and Leisure Markets, where good moulding is required at low densities, and in the Toy Markets, where high tear and bite resistance are necessary. MP grades are identified as MP24 (24 kg/m<sup>3</sup>), MP33 (33 kg/m<sup>3</sup>) and MP45 (45 kg/m<sup>3</sup>). Technical data is available in Zotegram MP1.

APPLICATION AREAS		PLASTAZOTE FOAM															EVAZOTE FOAM			SUPAZOTE FOAM						
		Nitrogen blown cross-linked Polyethylene Foam															Ethylene Copolymers									
		LD18	LD24	LD29	LD33	LD45	LD60	LD70	HL34	HL47	HL79	HD30	HD60	HD80	HD115	LD32CN	LD50CN	LD30SD	EV45CN	EV70CN	EV120CN	VA25	VA35	EV30	EV50	VA65
APPLIANCES	Gaskets		•		•	•												•			•	•	•	•		•
	Vibration pads					•															•	•	•	•		•
AUTOMOTIVE	Gaskets and seals		•		•	•															•	•	•	•	•	•
	Carpet underlay		○			•															•	•	•	•	•	•
	Sound insulation					•															•	•	•	•	•	•
	Vibration pads		•		•	•					•										•	•	•	•	•	•
	Headliners		•		•	•					•										•	•	•	•	•	•
	Interior padding	•	•		•	•			•	•	•	•									•	•	•	•	•	•
BUILDING	Sealing backers	•	•	•	•																•	•	•	•		•
	Expansion joints	•	•	•	•																•	•	•	•		•
	Glazing seals		○			•															•	•	•	•		•
	Eaves fillers	•	•	•	•																•	•	•	•		•
	Impact sound insulation	•	•	•	•																•	•	•	•		•
Pipe insulation	•	○	•	•	•															•	•	•	•		•	
AEROSPACE	Seating		○																							•
	Flotation cushions	•	○	•																						•
	Sound insulation		○																							•
	Ducting lining		○																							•
MARINE	Lifejackets	•				•															•	•	•	•		•
	Lifebuoys		•			•	•	•													•	•	•	•		•
	Fenders		•			•	•	•													•	•	•	•		•
	Oil booms		•			•	•	•													•	•	•	•		•
	Floating hoses	•				•			•												•	•	•	•		•
HEALTH CARE	Splinting					•	•	•	•	•	•	•	•	•												•
	Cervical collars					•	•	•	•	•	•	•	•	•												•
	Orthopaedic shoes and insoles					•	•	•	•	•	•	•	•	•												•
	Exercise mats	•	•	•		•	•	•													•	•	•	•		•
	Implement handles					•	•	•													•	•	•	•		•
	Orthotic supports					•	•	•				•	•	•							•	•	•	•		•
PACKAGING	Cushion packaging	•	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•						•
	Corner pads	•	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•						•
	Case inserts	•	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•						•
	Display packaging	•	•	•	•	•	•	•	•	•				•	•	•	•	•	•	•						•
SPORTS AND LEISURE	Buoyancy aids	•	•			•															•	•	•	•		•
	Swim vests	•	•			•															•	•	•	•		•
	Kickboards	•		•		•	•	•													•	•	•	•		•
	Pool games		•			•	•	•													•	•	•	•		•
	Camping mats		•			•	•	•													•	•	•	•		•
	Waterslide mats		•			•	•	•													•	•	•	•		•
	Backpack packing		•			•	•	•													•	•	•	•		•
	Sports shoe insoles					•	•	•													•	•	•	•		•
	Body protection		•			•	•	•				•									•	•	•	•		•
	Canoe seats					•	•	•													•	•	•	•		•
	Toys and games					•	•	•													•	•	•	•		•
	Wrestling/judo/gym mats					•	•	•													•	•	•	•		•
	Helmet liners					•	•	•				•	•	•							•	•	•	•		•
Surfing boards	•				•	•	•				•	•	•							•	•	•	•		•	
ELECTRICAL/ELECTRONICS	Static dissipative packaging																									
	Pin insertion																									
	Conductive cushion packaging														•	•	•	•	•	•						
	Faraday cage shielding														•	•	•	•	•	•						
	Work station mats														•	•	•	•	•	•						
	Tote box liners														•	•	•	•	•	•						
MILITARY	Conductive shoe insoles														•	•	•	•	•	•						
	Cold weather sleeping mats	•	•			•															•	•	•	•		•
	Missile packaging	•	•			•	•	•							•	•	•	•	•	•						•
	Weapons packaging	•	•			•	•	•							•	•	•	•	•	•						•
	Helmet liners		•			•	•	•							•	•	•	•	•	•						•
	Trauma padding		•			•	•	•							•	•	•	•	•	•						•
Riot shields		○			•	•	•							•	•	•	•	•	•						•	

○ Available in FR grade

**INTRODUCTION**

Closed cell materials have been made at Croydon for over 60 years. Some thirty five years ago we produced the world's first closed cell cross-linked polyethylene foam which is marketed under the trade mark PLASTAZOTE®. Today, Plastazote foam, together with Evazote foam and Supazote foam (based on ethylene copolymers) are the principal products of Zotefoams plc and are sold throughout the world via a network of specialist converters and distributors.

All products are totally CFC, HCFC and VOC free.



Examples of thermoformed PLASTAZOTE foam and EVAZOTE foam by Firma Köpp.

Examples of packaging using PLASTAZOTE foam (LDPE).

