



r-EPS-E402R-D TDS



FEATURES

- Has good sintering properties, surface crusting and high impact resistance.
- Utilizes an extrusion process and incorporates 100% recycled EPS, making it an energy-saving, environmentally friendly, and recyclable new material.
- Extrusion modification process can customize the following properties: lower thermal conductivity, various colors, better impact strength, etc.



PERFORMANCE TABLE

Physical	Unit	Technical requirements	Typical value
Coefficient of thermal conductivity	w/(m.k)	≤0.040	0.039
Oxygen Index	%	≥18	18.2
Normal Pellet size range	mm	0.8–1.4	0.8–1.2
Product density	kg/m ³	18–30	18–30
Compressive strength (KPa)	20kg/m ³	≥100	120
Dimensional stability	%	≤3	0.3
Pentane content (at the time of packaging)	% by weight	> 5.0	5.5

※These property data are believed to be representative under specific test conditions and are not intended to serve as product specifications. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability.

Water content
(at the time of packaging)

% by weight

< 0.25

0.23

Fire Behavior

Non-flame retardant

PRE-EXPANSION

E402R-D contains approximately 5-7% foaming agent, which can be pre-expanded using an ordinary or automatic expander. Water steam at 90-105°C is typically used to achieve a bulk density of 20-30g/l. The appropriate pre-expansion temperature and time are crucial for obtaining the desired bulk density and appearance.

If the pre-expansion time is too short at higher steam temperatures, some particles may not fully expand, resulting in defective products. Customers should adjust the process conditions according to their needs. After pre-expansion, it takes over 8 hours for E402R-D to mature before it can be molded; insufficient curing may cause cell shrinkage and affect appearance.

SHIPPING

During transportation, ensure the package remains intact and free from damage caused by collisions. Strictly prohibit mixed loading with oxides, food, or chemicals.

Additionally, avoid exposing the product to sunlight, rain, and high temperatures during transportation.



STORAGE

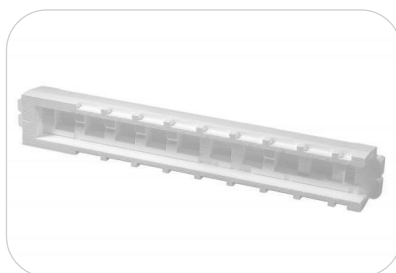
Store in a well-ventilated and dry and cool environment (below 30°C is highly recommended), away from flammable materials and static electricity. Pentane volatilization, reducing the storage period of the product, it is recommended to use it in the order of production date. Under the specified storage conditions, the shelf life of the product is one year.

For other not covered matters, please refer to MSDS or consulting engineers.

PRODUCT APPLICATION



Pallet



Structural Parts



Fishing-floats

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