

Technical Leaflet | October 2015

® = registered trademark of BASF SE

# Styropor® P 656

## Application

For the production of expanded particles as a filling material for lightweight plasters.

## Product description

Expandable polystyrene (EPS)  
(blowing agent: pentane).

## Form as supplied

Styropor® P 656 is supplied in the form of rounded particles.

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Bead size range:	0.2-0.4 mm
Sieve analysis:	> 0.5 mm max. 5%
	0.2-0.5 mm min. 90%
	< 0.2 mm max. 5%

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## Storage

Styropor® P 656 should always be stored in a cool place, i. e. at temperatures up to a maximum of 20°C. Styropor® is normally supplied in cardboard containers. It can be stored in the unopened original receptacles for one month respectively before processing.

The receptacles have to be protected against the effects of weather (rain, snow, frost, sun) and against damage.

## Processing

Styropor® P 656 is expanded to form filling material for lightweight plasters.

## Preexpansion

Attainment of the lowest bulk density is largely dependent on the type and mode of operation of the preexpander.

For the production of lightweight plasters the target bulk density to be attained is 14 kg/m<sup>3</sup>.

## Batch mode

Single expansion in pressure preexpanders to approximately 14 kg/m<sup>3</sup>.

## Aging

Aging for at least 6 hours is recommended prior to further processing as a filling material for lightweight plasters.

## Safety notes

It is to be noted that in the storage and processing of Styropor® and of the expanded foams manufactured from it, flammable mixtures of blowing agent (pentane) and air can be produced due to blowing agent diffusing out and therefore all conceivable sources of ignition are to be kept away (naked flames, welding sparks, electric sparks, avoidance of electrostatic charging). A ban on smoking is to be observed without fail!

Information about the safety precautions necessary in processing may be obtained from the brochure "Fire safety during processing". In addition the "Richtlinien für die Vermeidung von Zündgefahren infolge elektrostatischer Aufladungen" (Guidelines for the avoidance of fire hazards as a result of electrostatic charges), BG Chemie, 7<sup>th</sup> Edition, 2004, are to be observed.

The contents of open containers should be processed quickly. At other times the containers are to be kept well sealed.

The transportation of Styropor® or of expanded foams freshly made from it in unventilated or closed means of conveyance is not permissible. The Technical Information leaflet:

- Transport Guidelines contains further information.

### **Biological action**

During the storage and in the processing of Styropor® pentane escapes. Especially when cutting the expanded foams with heated wires care is to be taken to remove the vapors arising by suction since apart from pentane they also contain small amounts of styrene.

The maximum allowable concentration values for styrene and for pentane are to be observed.

Expanded foams made from Styropor® have been manufactured and processed for several decades. In this time no effects harmful to health whatsoever have been ascertained.

### **Food legislation**

For additional information pertaining to the food legislation please contact the local BASF representative.

### **Note**

The information in this publication is based on our current knowledge and experience. This information does not relieve processors of the need to carry out their own tests and trials due to the profusion of possible effects when processing and applying our products. No legally binding assurance of certain properties or of suitability for a specific purpose can be inferred from our information. Recipients of our products are themselves responsible for observing any proprietary rights and existing laws and regulations.