



Flint Hills Resources Expandable Polystyrene Grade 71

I. GENERAL DESCRIPTION

Grade 71 expandable polystyrene is a regular grade specifically formulated to produce high strength containers for demanding applications such as produce packaging. It is available with a low blowing agent (VOC) content to provide competitive cycle times and minimum VOC emissions. Products molded from Grade 71 expandable polystyrene meet the requirements of the Food and Drug Administration for packaging of foods in direct contact with the package.

II. PROPERTIES OF GRADE 71 EXPANDABLE POLYSTYRENE

Type	Bead Size	Typical* Unexpanded Particle Size, (mm)	Blowing Agent Level	Recommended Density Range** (lbs./ft ³)	Method of Processing
5371	B/A	0.600 – 1.600	LOW	1.5 – 3.0	SHAPE
7371	C	0.400 – 0.700	LOW	1.5 – 3.0	SHAPE

*Typical indicates at least 90% of product falls within the given particle size range

**Low density on low pentane products attainable with double pass or batch pre-expansion.

III. APPLICATIONS

Grade 71 expandable polystyrene is a special purpose regular grade product designed for maximum mechanical strength and crush resistance in produce containers such as grape boxes, where containers must support stacking of multiple pallets. Grade 71 is designed for processing at densities of 2.0 pcf and higher. Either double pass or batch expansion can be used to mold at lower densities, taking advantage of Grade 71's high strength and low VOC emissions.

To help assure that Flint Hills Resources products are not misapplied, or used in any manner which may not have been intended or tested, we suggest a review of proposed applications with Flint Hills Resources personnel to assist in dealing with end use, regulatory and safety issues. Your Flint Hills Resources Sales Representative can arrange for the proper contact with our Technical Staff for such review.

IV. EXPANDABLE POLYSTYRENE MANUFACTURING LOCATIONS

Peru, Illinois

The information contained herein is provided for general purposes only. By providing the information contained herein, Flint Hills Resources, LP makes no guarantee or warranty, and does not assume any liability with respect to the accuracy or completeness of such information, or the product results in any specific instance and hereby expressly disclaims any implied warranties of merchantability or fitness for a particular purpose, or any other warranties or representations whatsoever, expressed or implied. Nothing contained herein shall be construed as a license to use the Flint Hills Resources, LP in any manner that would infringe any patent.