



FAGERDALA WORLD FOAMS  
Fagerdala USA, Inc.

## Black Expandable Polystyrene Grade 5501

---

### GENERAL DESCRIPTION

Grade 5501 is a regular grade, black-pigmented expandable polystyrene resin. This resin is specifically formulated for high-density, impact absorption applications such as bicycle helmet liners. Grade 5501 resin is available in an unexpanded particle size range of 0.6-1.2mm, and the typical density range for molded applications is 2.5 to 10 pcf. Typical property data is tabulated below.

PROPERTY	UNITS	ASTM TEST	TYPICAL PROPERTY @	
			2.5 LBS/CUBIC FT	3.5 LBS/CUBIC FT
Compressive Strength				
@ 10%	psi	D-1621	41	66
@ 15%	psi	D-1621	44	70
@ 20%	psi	D-1621	48	76
Flexural Yield Strength	psi	C-203	95	150
Flexural Modulus	psi	C-203	2900	4300

### APPLICATION

To help assure that Fagerdala USA-Mendota 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 Fagerdala USA-Mendota personnel to assist in dealing with end use, regulatory and safety issues. Your Fagerdala USA-Mendota Sales Representative can arrange for the proper contact with our Technical Staff for such review.

### SHIPPING AND HANDLING PRECAUTIONS

Expandable polystyrene contains a flammable blowing agent and is consequently regulated by the United States Department of Transportation as a CLASS 9-MISCELLANEOUS MATERIAL. These products are shipped in regulation UN 2211, 1000 - pound containers. Each container is lined with a hydrocarbon barrier liner to decrease the emissions of volatiles. Please refer to Fagerdala USA-Mendota Technical Bulletin No. 2.00 "Recommended Safety, Health and Environmental Guidelines" and to the corresponding resin's Material Safety Data Sheet (MSDS), a copy of which is provided with the first shipment or upon request.

---

The information contained herein is provided for general purposes only. By providing the information contained herein, Fagerdala USA-Mendota, Inc. makes no guaranty 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 license to use the products of Fagerdala USA-Mendota, Inc. in any manner that would infringe any patent.