

Cellular Rigid Polyurethane Foam

Cellular rigid polyurethane foam has larger pores to resemble cancellous bone. Cell size ranges from 0.5 to 2.0mm diameter for this primarily closed cell foam. Variation in foam density is $\pm 10\%$ and is available in a range of densities from 0.12g/cc to 0.32 g/cc (7.5pcf to 20pcf).

For more information see our Biomechanical Validation Studies page.

DENSITY			COMPRESSION	
ASTM D1622		Volume Fraction	ASTM D1621	
Density (pcf)	Density (g/cc)		Strength (MPa)	Modulus (MPa)
7.5	0.12	0.10	1.4	12.4
10	0.16	0.14	2.3	23
12.5	0.20	0.17	3.9	47
15	0.24	0.20	4.1	68
20	0.32	0.27	5.4	137

FOAM BLOCK TOLERANCES:	
Foam density	$\pm 10\%$
Block dimensions	$\pm 2\text{mm}$