Sawbones Fourth-Generation Simulated Cancellous Bone (Rigid Polyurethane Bone)

Category : Other Engineering Material , Composite Core Material , Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane Foam, Glass Filled

Material Notes:

Fourth-generation bones model natural cortical bone using a mixture of short glass fibers and epoxy resin pressure injected around a foam core. Standard bone models are manufactured with a solid rigid polyurethane foam cancellous core material, unless cellular rigid polyurethane foam is specified. The mid-shaft area has an intermedullarly canal.Fourth-Generation Composite Bones Have Improved Properties Fourth-generation composite cortical bone has been developed in order to meet the demanding needs of in vitro experiments, fatigue testing and to more closely simulate natural cortical bone. The result is a composite bone with enhancements to the following properties: Fracture Toughness - Fatigue Crack Resistance Fatigue Life - Implant Subsidence Tensile Strength & Modulus - Compressive Strength & Modulus Thermal Stability - Moisture Resistance No changes have been made to the anatomical structure of the bones.Information provided by Sawbones.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Sawbones-Fourth-Generation-Simulated-Cancellous-Bone-Rigid-Polyurethane-Bone.php

Physical Properties	Metric	English	Comments
Density	0.270 g/cc	0.00975 lb/inÂ³	Solid
	0.320 g/cc	0.0116 lb/inÂ³	Cellular

Mechanical Properties	Metric	English	Comments
Compressive Strength	5.40 MPa	783 psi	Cellular; ASTM D1621
	6.00 MPa	870 psi	Solid; ASTM D1621
Compressive Modulus	0.137 GPa	19.9 ksi	Cellular; ASTM D1621
	0.155 GPa	22.5 ksi	Solid; ASTM D1621
Poissons Ratio	0.30	0.30	ASTM D1621

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