

AdvanSource Biomaterials ChronoFlex® AR Biodurable Medical Grade Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polycarbonate (PC) , Polyurethane, TP , Polycarbonate-Urethane

Material Notes:

AdvanSource Biomaterials Corporation manufactures and markets this solution-grade, segmented, aromatic, polycarbonate-based polyurethane designed for use in solvent casting and dipping applications. This elastomer may be evaluated for use in the fabrication of blood contact surfaces, pump diaphragms, and other medical devices. Exceptional flexure endurance leads to uses such as artificial heart diaphragms or vascular grafts. Synthesis of ChronoFlex® AR is carried out by the addition of MDI (diphenylmethane 4,4'-diisocyanate) to polycarbonate diol, followed by addition of a mixture of chain extenders and a molecular weight regulator, with the reaction carried out in DMAC solvent. ChronoFlex® AR is thus supplied as a 22% solids solution, ready for solution casting. Information provided by AdvanSource Biomaterials Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_AdvanSource-Biomaterials-ChronoFlex-AR-Biodurable-Medical-Grade-Polyurethane.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Tensile Strength, Ultimate	51.7 MPa	7500 psi	Film; ASTM D412
Elongation at Break	500 %	500 %	Film; ASTM D412

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