

AdvanSource Biomaterials ChronoFlex® AL 55D Biodurable Medical Grade Polyurethane

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

Material Notes:

ChronoFlex® AL is a family of premium polycarbonate aliphatic biodurable thermoplastic polyurethane elastomers developed by AdvanSource Biomaterials Corporation. ChronoFlex® AL medical-grade elastomers are manufactured under strict GMP conditions specifically synthesized to overcome the in vivo formation of stress-induced microfissures. Surface microfissuring is a major weakness of present polyurethane elastomers which may lead to catastrophic failures in long-term implanted devices. This makes ChronoFlex® AL an excellent material choice for medical device applications requiring long term durability. Information provided by AdvanSource Biomaterials Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_AdvanSource-Biomaterials-ChronoFlex-AL-55D-Biodurable-Medical-Grade-Polyurethane.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	
Tensile Strength, Ultimate	57.9 MPa	8400 psi	
Elongation at Break	325 %	325 %	
100% Modulus	0.0200 GPa	2.90 ksi	

Processing Properties	Metric	English	Comments
Zone 1	199 °C	390 °F	
Zone 2	210 °C	410 °F	
Zone 3	213 °C	415 °F	
Die Temperature	213 °C	415 °F	
Melt Temperature	221 °C	430 °F	
Drying Temperature	71.1 - 85.0 °C	160 - 185 °F	or lower with overnight predrying
Dry Time	3 - 4 hour	3 - 4 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	
Dew Point	-40.0 °C	-40.0 °F	

Descriptive Properties	Value	Comments
Appearance	Clear	

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