

AdvanSource Biomaterials ChronoFlex® AL 80A 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-80A-Biodurable-Medical-Grade-Polyurethane.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	
Tensile Strength, Ultimate	37.9 MPa	5500 psi	
Elongation at Break	585 %	585 %	
100% Modulus	0.00448 GPa	0.650 ksi	
300% Modulus	0.00414 GPa	0.600 ksi	

Processing Properties	Metric	English	Comments
Zone 1	191 °C	375 °F	
Zone 2	196 °C	385 °F	
Zone 3	202 °C	395 °F	
Die Temperature	204 °C	400 °F	
Melt Temperature	210 °C	410 °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	

Descriptive Properties	Value	Comments
------------------------	-------	----------

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China