

AdvanSource Biomaterials ChronoThane™ P Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP

Material Notes:

AdvanSource Biomaterials Corporation manufactures and markets aromatic-based ChronoThane™ P. Some characteristics that have made it attractive to medical device manufacturers include low coefficient of friction, low extractables, dimensional stability, gamma sterilizable, chemical inertness, and biodurability. In addition, they are coupled with easy thermoplastic processability. Hardnesses from 80 Shore A to 75 Shore D are available; property data below is typical for 80A. Information provided by AdvanSource Biomaterials Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_AdvanSource-Biomaterials-ChronoThane-P-Thermoplastic-Polyurethane-Elastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength, Ultimate	35.2 MPa	5100 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
100% Modulus	0.00586 GPa	0.850 ksi	
300% Modulus	0.0121 GPa	1.75 ksi	
Flexural Modulus	0.103 GPa	15.0 ksi	ASTM D790
Tear Strength	73.6 kN/m	420 pli	Die C; ASTM D624

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 °C	185 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Zone 1	193 °C	380 °F	
Zone 2	193 °C	380 °F	
Zone 3	193 °C	380 °F	
Die Temperature	204 °C	400 °F	
Melt Temperature	210 °C	410 °F	
Drying Temperature	73.9 - 79.4 °C	165 - 175 °F	
Dry Time	3 - 4 hour	3 - 4 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	

Soft Point
Processing Properties

-40.0 °C
Metric

-40.0 °F
English

Comments

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