

AorTech Biomaterials Elast-Eon™ E2A Biomedical Polyurethane Pellets

Category : Polymer , Thermoplastic , Polyurethane, TP , Silicone Polyurethane, Ether Based

Material Notes:

Elast-Eon™ 2A is a polyurethane with a 40% hard segment content and a mixed polyether/siloxane soft segment. It comes in pellet form. The pellets are colorless to yellowish and are soluble in DMAc. Elast-Eon™ polymers are used in biomedical applications. They have high biostability so they can be used for long term implantation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_AorTech-Biomaterials-Elast-Eon-E2A-Biomedical-Polyurethane-Pellets.php

Physical Properties	Metric	English	Comments
Molecular Weight	>= 95000 g/mol	>= 95000 g/mol	Mn by GPC using polystyrene stds; TM-005
Melt Flow	<= 5.0 g/10 min @Load 2.16 kg, Temperature 196 °C	<= 5.0 g/10 min @Load 4.76 lb, Temperature 385 °F	TM-022

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85 - 95	85 - 95	TM-025
Tensile Strength at Break	20.0 - 35.0 MPa	2900 - 5080 psi	TM-019G
Tensile Stress	7.00 - 9.00 MPa @Strain 100 %	1020 - 1310 psi @Strain 100 %	TM-019G
	8.50 - 11.5 MPa @Strain 200 %	1230 - 1670 psi @Strain 200 %	TM-019G
	11.5 - 15.0 MPa @Strain 300 %	1670 - 2180 psi @Strain 300 %	TM-019G
Elongation at Break	>= 450 %	>= 450 %	TM-019G
Modulus of Elasticity	0.0300 - 0.0400 GPa	4.35 - 5.80 ksi	TM-019E
Tear Strength	70.0 - 90.0 kN/m	399 - 514 pli	TM-019K

Thermal Properties	Metric	English	Comments
Melting Point	146 - 154 °C	295 - 309 °F	DSC Induction Temperature; TM-029

Descriptive Properties	Value	Comments
Fiber Forming (cm)	> 10	TM-021

Polydispersity
Descriptive Properties

1.6-2.2
Value

TM-005: Mw/Mn by GPC using polystyrene stds
Comments

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