

AorTech Biomaterials Elast-Eon™ E2-852 Biomedical Polyurethane Pellets

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

Material Notes:

Elast-Eon™ 2-852 is a polyurethane with a 52% 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-E2-852-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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 70	55 - 70	TM-025
Tensile Strength at Break	25.0 - 35.0 MPa	3630 - 5080 psi	TM-019G
Tensile Stress	13.0 - 17.0 MPa	1890 - 2470 psi	TM-019G
	@Strain 100 %	@Strain 100 %	
	18.0 MPa	2610 psi	
	@Strain 200 %	@Strain 200 %	
	23.0 MPa	3340 psi	
	@Strain 300 %	@Strain 300 %	
Elongation at Break	>= 300 %	>= 300 %	TM-019G
Modulus of Elasticity	>= 0.200 GPa	>= 29.0 ksi	TM-019E
Tear Strength	129 kN/m	736 pli	

Descriptive Properties	Value	Comments
Polydispersity	1.8-2.4	TM-005; Mw/Mn by GPC using polystyrene stds

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