

AorTech Biomaterials Elast-Eon™ E5-325 Biomedical Polyurethane Pellets

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

Material Notes:

Elast-Eon™ 5-325 is a polyurethane with a 32.5% 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 and THF. 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-E5-325-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 A	78 - 88	78 - 88	TM-025
Tensile Strength at Break	15.0 - 30.0 MPa	2180 - 4350 psi	TM-019G
Tensile Stress	4.00 - 6.00 MPa	580 - 870 psi	TM-019G
	@Strain 100 %	@Strain 100 %	
	5.00 - 8.00 MPa	725 - 1160 psi	TM-019G
	@Strain 200 %	@Strain 200 %	
	7.00 - 11.0 MPa	1020 - 1600 psi	TM-019G
	@Strain 300 %	@Strain 300 %	
Elongation at Break	>= 500 %	>= 500 %	TM-019G
Modulus of Elasticity	0.0100 - 0.0200 GPa	1.45 - 2.90 ksi	TM-019E
Tear Strength	50.0 - 70.0 kN/m	285 - 399 pli	TM-019K

Descriptive Properties	Value	Comments
Polydispersity	1.6-2.2	TM-005; Mw/Mn by GPC using polystyrene stds

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