

Certificate of Analysis

Product Name: CARBOMAXX® TC910 (Trimethylene Carbonate/Caprolactone 90/10 Copolymer)

Product Lot Number: BB0306-179D

Catalog # 5191

Linear Formula (C₄H₆O₃-C₆H₁₀O₂)_n

Storage Temperature: Around -20°C

Quality Release Date: September 16, 2016

TEST	SPECIFICATION	RESULT
Appearance (Color)	Light yellow	Light yellow
Appearance (Form)	Amorphous chunks	Amorphous chunks
Inherent Viscosity (IV) (0.1% in chloroform at 25°C)	1.0 to 2.0 dL/g	1.14 dL/g
Residual Monomer by NMR	Max. 2.0 mole % TMC Max. 2.0 mole % CL	Not detected Not detected
Polymer Composition by NMR	PTMC 88 - 92 (Mole %) PCL 8 - 12 (Mole %)	88.8% 11.2%
Thermal Analysis (DSC)	Melting Point : Amorphous Glass Transition Temperature (T _g) (-30) to (-20) °C	No melting T _g -23.4°C

Prepared by:



Neeti Srivastava, Ph.D.
Manager, R&D Quality Assurance

Approved by:



Rao S. Bezwada, Ph.D.
President