



Technical Bulletin
February 2007

Nanopol Technical Datasheet Hydrophilic TDI-Based PrePolymer

Description: Nanopol 700 is a toluene diisocyanate based urethane prepolymer utilized in the manufacturing of hydrophilic foams and coatings.

Product Specification	Range	Test Method
NCO (%)	6.00-6.55	MA0059
Viscosity at 25C (cPs)	10,500-13,500	MA0013
Specific Gravity at 25C	1.17-1.20	MA0009
Free TDI Content (%)	<0.5	MA0081
Free HMDI Content (%)	0.05-0.5	MA0105

Typical Properties:

Color	Clear Amber, Free of Particulates
Weight per gallon	9.2 lbs
Storage Temperature	60-80F
Foam Absorption	12g/g
Shipping Specification	Non-hazardous, Drums or Totes

Applications: Compared directly against the Hypol family of prepolymers (Hypol is a registered trademark and product of Dow Chemical Co.), Nanopol 700 has found use in a wide range of applications ranging from medical foams, viscoelastic earplugs, cosmetic sponge, and specialty coatings/foams. Due to the hydrophilic backbone, these polymers and resultant foams/coatings absorb and retain a large quantity of liquid (water and alcohol).

Headquarters:

1280 East Big Beaver
Troy, Michigan 48083
Office: (248) 619-7031
Fax: (248) 619-7032

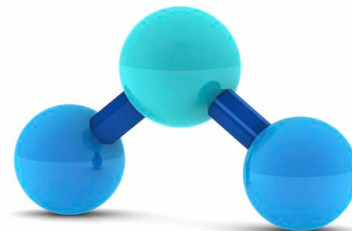
INOS Technologies

www.inostech.com

Email: info@inostech.com

Research Laboratory:

401 W. Morgan Street
Ann Arbor, MI 48108
Office: (734) 274-0020
Fax: (734) 327-0626



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Nanopol MD

Hydrophilic MDI-Based PrePolymer

Description: Nanopol MD is a diphenylmethane diisocyanate (MDI) based urethane prepolymer utilized in the manufacturing of hydrophilic foams and coatings.

Product Specification	Range	Test Method
NCO (%)	7.65-8.35	MA0059
Viscosity at 25C (cPs)	4,000-6,500	MA0013
Specific Gravity at 25C	1.18-1.21	MA0009
Free MDI Content (%)	<10%	MA0087

Typical Properties:

Color	Clear slightly yellow, Free of Particulates
Weight per gallon	9.1 lbs
Storage Temperature	60-80F
Foam Absorption	18g/g
Shipping Specification	Non-hazardous, Drums or Totes

Applications: The Nanopol MD series of prepolymers were created to meet the ever-growing global demands of the targeted markets (agricultural, medical, & industrial) for these specialty hydrophilic systems. Complete formulations can be provided to meet or match existing or new product requirements. Let us help you develop your next product.

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Troy, Michigan 48083
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Fax: (248) 619-7032

INOS Technologies

www.inostech.com

Email: info@inostech.com

Research Laboratory:

401 W. Morgan Street
Ann Arbor, MI 48108
Office: (734) 274-0020
Fax: (734) 327-0626