



Prepolymer

MSA-018

MSA-018 is a polyester based MDI prepolymer used in a variety of exclusive formulations by Northstar Polymers, and it may also be used in many other custom formulations. MSA-018 is extended by polyester polyol, which has a good affinity with many polar type raw materials. It is liquid at room temperature, so it can also be used as a component for room-temperature-cure systems and flexible foams. Its higher surface energy helps cell-opening property in flexible foam formulations. The MDI functionality of MSA-018 is close to 2.0, which helps compounding polyester based quasi systems with good tensile/elongation properties.

Typical Physical Properties

Specific Gravity:		1.204
Viscosity	72 °F (cps):	700 - 1200
Viscosity	180 °F (cps):	50 - 100
% NCO:		23.0
Amine Equivalents:		183
Appearance at 77 °F:		Liquid, Yellow to Amber Colored

Note: MSA-018 freezes just below room temperature, and the shipment may arrive frozen during cold seasons. The material must be thawed immediately after the product is received following the specific instructions provided by Northstar Polymers. Leaving the material frozen for a long time can accelerate the MDI dimerization, which ruins the material. Thawing requires heating equipment to raise the material temperature to 140 °F within several hours. Thawed material must be stored within the temperature range 72 °F to 100 °F. The ideal storage temperature is 96 °F. Northstar Polymers disclaims the damages caused from cold temperature exposure or mishandling by the customer.

We prepare Safety Data Sheets and Product Labels that provide health and safety information intended to aid in the safe use of this prepolymer. Before using or handling this product personnel must read and become familiar with safety/handling information. For more information, contact your Northstar Polymers representative or call our corporate headquarters in Minneapolis MN.

Notice: All of the statements, recommendations, suggestions, and data concerning the subject material are based on our laboratory results, and although we believe the same to be reliable, we expressly do not represent, warrant, or guarantee the accuracy, completeness, or reliability of same, or the material or the results to be obtained from the use thereof, neither do we warrant that any such use, either alone or in combination with other materials, shall be free of the rightful claim of any third party by way of INFRINGEMENT or the like, and TANDEM PRODUCTS (DBA NORTHSTAR POLYMERS) DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE.

Revised: 5/29/19