

Wannate 3T3250

A Polyester-based, TDI terminated urethane prepolymer

Wannate 3T3250 is a polyester -based, TDI terminated urethane prepolymer that is solid at room temperature. When cured with MOCA or DMTDA, this high performance material yields outstanding properties.

Wannate 3T3250 elastomers are characterized by:

- ◆ Excellent flex life
- ◆ Excellent abrasion resistance
- ◆ Good resistant to oils
- ◆ Excellent tensile strength

Prepolymer Specifications

Wannate 3T3250	
NCO, %	4.8-5.2
Appearance @ 25°C	Solid free from contamination
Brookfield Viscosity@80°C, mPa·s	1000-1800

* The information presented here is based on laboratory testing. The packages are 25KG and 220KG.

Processing Conditions

	Wannate 3T3250/MOCA	Wannate 3T3250/DMTDA
Recommended Meltdown Procedure	70 °C, 10-12 hrs	-
Wannate 3T3250, pph	100	100
MOCA level, pph	14.3	-
DMTDA level, pph	-	11.5
Wannate temperature, °C	70-80	65
Curative Temperature, °C	110-120	25-30
Mold Temperature, °C	90-100	
Pot Life (400 g scale), Mins	4-6	3-4
Demold Time, Mins	30-40	40-50
Postcure, Hrs./°C	16/100	

*These data presented here is an example of processing conditions of Wannate 3T3250, a pre-experiment is recommended if other processing conditions was employed or contact us for advice.

Physical Properties (Cured with Curatives)

Properties	Wannate 3T3250/MOCA	Wannate 3T3250/DMTDA	Method
Hardness/Shore A	95 ± 2	93 ± 2	GB/T 531.1-2008
100% Modulus/MPa	7.5	6.9	GB/T 528-2009
300% Modulus/MPa	16.2	15.3	GB/T 528-2009
Tensile Strength/MPa	60.8	57.1	GB/T 528-2009
Elongation at Break/%	560	636	GB/T 528-2009
Tear Strength, Die C pli/(KN/m)	116	108	GB/T 529-2008
Rebound(23°C)/%	36	41	GB/T 1681-2009
Din abrasion/mm ³	38	40	GB/T 9867-2008

* These data presented here is based on laboratory testing. These data should not be used alone as a basis of design or specification.

Storage

The product should be stored in dry conditions above 5°C and below 35°C with the integrity of the packaging, and prevent direct sunlight. The validity of this product is for 12 months, performance assessment is recommended before use after more than 12 months. After opening the packing, it is suggested to use up one time.

Hygiene

Wannate 3T3250 prepolymer, as an uncured liquid prepolymer, contains little free toluene diisocyanate (TDI), which is known to cause irritation to eyes, skin, mucous membranes and respiratory system. Avoid contact with eyes, skin, and clothing, and wash thoroughly after handling. Avoid breathing the vapor. Use only with adequate ventilation.

Other materials that may be used with Wannate 3T3250 in the manufacture of finished products may present hazards in handling and use. Before proceeding with any compounding or processing work, consult and follow label directions and handling precautions from suppliers of all ingredients.

Note: Wanhua Chemical Group Co., LTD. recommends that any customers of this material should check with Materials Safety Data Sheet (MSDS) for details about safely handling this material. We also suggest that you contact the suppliers of any other materials used in our recommended formulations and suggestions for appropriate health and safety regulations prior to use. The information contained herein is believed to be reliable. However, nothing in this technical sheet should be considered as a representation of warranty, express or implicit, regarding the product characteristics, application, quality, safety, merchantability or fitness for a particular purpose. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.