## **The Andur Report**

#### October 2019

#### In this Issue

•TDS facelift & MCDEA data update Andur LQ 9-5 APLF Andur Glide LQ 25 MBOCA Safety Poster

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### Anderson Development Company



#### Newly updated TDS with new MCDEA data

In an effort to make our TDS more uniform, R&D has updated our Andur® TDS with some formatting changes that should make the text and numbers more readable. There were also a number of other enhancements made for clarity of information.

Besides formatting, the biggest change implemented was the addition of physical testing data for almost all products when cured

MCDEA. with Curene® Data was added for a more typical postcure of 16 hours at 212°F (100° C) and also for a higher 4 hours at 320°F (160° C). The higher temperature postcure increases tear strength while at the same time lowering compression set. Hardness, tensile properties, and rebound remain relatively unaffected, though. Right

now only tensile data is listed, but compression-deflection data will be added soon as well.

At the top the TDS, we have temperature postcure of also put the FDA status of each material (prepolymer only).

> Below is a sample of what the new data looks like. As TDS are updated in our system, they will automatically update on our website and mobile app.

Physical Properties — Tension (Values are in psi for Tensile, Modulus and pli for Tear)								
	Hardness,	Ultimate	100%	300%	% Elongation	Young's	D624 Die C	D1938/D470
Curative	Shore	Tensile	Modulus	Modulus	at break	Modulus	Tear	Split Tear
MBOCA	89-92A	7850	1100	2500	420	6600	545	210/137
MCDEA	53D	8200	2000	3350	430	12000	650	175
MCDEA (HT*)	50D	8650	1800	2450	550	12000	735	370
Curene <sup>®</sup> 107	86A	6400	670	1700	480		330	230

#### New Product: Andur® LQ 9-5 APLF

Andur<sup>®</sup> LQ 9-5 APLF is a LQ 9-5 APLF is about low free TDI polyester prepolymer. It is labeled as LQ to denote its liquidity at to 6000 cP at 122°F room temperature, as opposed to being a waxy solid at room temperature as our other LFTDI polyesters are. This means when initially heating the LQ 9-5 APLF, the material becomes flowable much faster, cutting time off from the preheat stage. The viscosity of the

86°F 39000 сΡ at (30C°), and quickly drops At processing (50°C). temperatures, the prepolymer is well below 2000 cP and has a 5-6 minute potlife with Curene® 442 (MBOCA).

The Andur® LQ 9-5 APLF is also approvable for dry food contact per regulation 21CFR 177.1680.

# **IQ** = LIQUID



https://www.thoughtco.com/definition-of-liquid-604558

#### **New Product: Andur® Glide LQ 25**

As a result of the research and testing for the technical paper ADC presented at PMA and CPI this year, we have a new Andur<sup>®</sup> Glide product to introduce.

The product is called Andur<sup>®</sup> Glide LQ 25 and is named as such due to its active ingredient content of 25% as well as its liquidity at ambient temperature. The Andur<sup>®</sup> Glide LQ 25 is

additive consisting of a agglomerations proprietary modified other wax dispersed in a mixing plasticizer. occur. universal This makes it compati- graph that shows the addition ble in all urethane abrasion systems. The polymer benefit of using the sliding doesn't have agitation volume in the additive tank. 5963, Also, when pre-mixed abrasion) is substan-

an abrasion resistance with the prepolymer, no tially reduced to about undesirable Below is a resistance translates loss rotary

or one-third of the control and at 4% there is phenomenon another reduction of 25-35% from 2% the level. This to better abrasion redoesn't settle out of Andur® Glide LQ 25 in sistance in the final part. the plasticizer to create Andur® 8-5 APLF and Then Andur® Glide LQ 25 two phases, which is an Andur® 85 APLF at is available in 5 gallon advantage to proces- levels of 2% and 4%. pails and 1 gallon cans. sors using this in an The data demonstrates Quart samples (~2 lbs.) MM&D machine that that from 0 %to 2% the of the Andur<sup>®</sup> Glide LQ (ASTM 25 are available upon drum request.



#### **MBOCA Safety Poster**

The Polyurethane Manufacturer's Association recently released a MBOCA safety poster for cast urethane processors who make parts with MBOCA. It details the proper PPE and handling techniques when working with MBOCA as well as some emergency procedures and ventilation recommendations. To the right is a sample of the poster. A downloadable PDF and full size (23"x29") printed version on waterproof paper are available (order printed version by 12/31/19) from the PMA for non-members at a cost of \$20 each (PDF is free). See the URL below for details.

http://www.pmahome.org/main/ resources-and-publications/healthsafety-and-environment-resources/ moca-safety-poster/



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#### **Mission Statement**

Anderson Development will be a global supplier of innovative specialty chemical products, striving for continual improvement in all of our operations. It is our goal to be personal, efficient, and responsive to our customers and employees. We will provide a team-oriented atmosphere while allowing for individual diversity among our employees.

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