

The Andur Report

Anderson Development Company



May 2026

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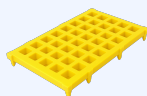
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New Product Line: Andurable XT

In industries where performance and reliability can't be compromised, durability isn't optional — it's essential. That's why the technical team developed **Andurable XT**, a new line of high-performance materials engineered for improved durability and abrasion resistance.



Physical Properties

XT vs Standard	Split Tear, pli	Abrasion Loss, mm ³
XT 8-5 APLF vs 8-5 APLF	285 / 230	18 / 95
XT 9-5 APLF vs 9-5 APLF	420 / 300	50 / 106
XT 85 APLF vs 85 APLF	45 / 40	35 / 120
XT M 8-5 AP vs M 8-5 AP	300 / 310	14 / 65
XT M 9-5 AP vs M 9-5 AP	450 / 475	25 / 73
XT T-CL 93 AP vs XP-14	400 / 400	40 / 80
XT CL 93 AP vs CL 93 AP	375 / 375	40 / 75

- ✓ H6XDI-Polycaprolactone
- ✓ TODI-Polycaprolactone
- ✓ Low Free TDI-Polyester
- ✓ MDI-Polyester
- ✓ Low Free TDI-PTMEG
- ✓ And more to come!

New Product Line: AndurGrip

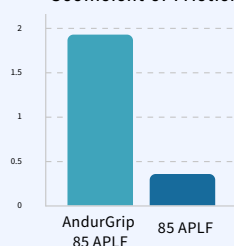
Focused on increasing coefficient of friction (CoF) while maintaining hardness. Currently, one product is commercial with plans to have additional products by the end of the 2026.

AndurGrip 85 APLF, 85A Low-Free Polyether.

536% INCREASE IN GRIP!

**UNMATCHED GRIP,
UNCOMPROMISED HARDNESS**

Coefficient of Friction



Physical Properties

	AndurGrip 85 APLF	85 APLF
Tensile, psi	2700	4800
Split Tear, pli	40	40
Rebound, %	60	60
Compression Set, %	21	21

Additional New Products:

Andur 5 APLM

- 50A TDI-Polycaprolactone
- NCO = 2.5-2.9%
- 48-52A with MBOCA

Andur QZ PT-23 /

Andur M-78 AS Part B

- 78A System with high rebound
- Made for machine casting and a quick demold

Additional New Products:

Curene 84

- Triol-based curative, liquid at room temperature
- Equivalent weight = 84
- Reduces hardness ~25 units compared to MBOCA

Immersion Studies: Immersion in Synthetic ATV Transmission Fluid at 200°F

Non-Polycarbonate Systems									
	Andur 9 APLF / Curene 107			Andur AL 90 AP / Curene 110			Andur IP 90 AP / Curene 97		
	Initial	4 Weeks	Change	Initial	4 Weeks	Change	Initial	4 Weeks	Change
Elastomer Properties									
Shore Hardness, (A)	91	74	-17	92	85	-7	90	78	-12
Tensile, psi	6718	474	-92.9%	3715	3411	-8.2%	5145	3880	-24.6%
Elongation, %	578	504	-12.8%	365	545	49.3%	434	696	60.4%
	AndurElite XP-14 / Curene 45			Andur 85 APLF / Curene 107			Andur 93 APLF / Curene 107		
	Initial	4 Weeks	Change	Initial	4 Weeks	Change	Initial	4 Weeks	Change
Elastomer Properties									
Shore Hardness, (A)	96A/48D	95A/37D	-1A/-11D	84	66	-18	93	84	-9
Tensile, psi	5207	1035	-80.1%	2723	974	-64.2%	4239	1585	-62.6%
Elongation, %	632	240	-62.0%	482	1071	122.2%	428	905	111.4%

Polycarbonate vs non-Polycarbonate Systems

Polycarbonates are known for great chemical resistance. Recently we performed an immersion study with our PC systems to see how they compared in a synthetic transmission fluid versus our standard polyester, polycaprolactone, and polyether systems. The results show how excellent the chemical resistance is for a polycarbonate system. The synthetic fluids used in many applications today are more detrimental to urethane systems than in the past, thus the need for a more chemical resistant backbone like a polycarbonate.

Polycarbonate Systems									
	AndurElite PC 95 AP / Curene 45			AndurElite PC 90 APLF / Curene 107			Andur PC-M 95 AP / Curene 45		
	Initial	4 Weeks	Change	Initial	4 Weeks	Change	Initial	4 Weeks	Change
Elastomer Properties									
Shore Hardness, (A)	96A/45D	95A/45D	-1	84	86	2	95A/48D	95A/48D	0
Tensile, psi	5356	4411	-17.6%	4894	5085	3.9%	6446	6514	1.1%
Elongation, %	623	640	2.7%	429	489	14.0%	423	530	25.3%

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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Industry Update: PMA EHS Committee on MOCA

Excerpt from PMA Polytopics, 2026 Q1 - "EHS Committee Update"

By Mike Kocak & Chris Goeloe, EHS Committee Co-Chairs

We need your help!

- Science is the driving force behind the campaign to support MOCA in the EPA TSCA review process.
 - » We hired a toxicologist, Dr. Janet Anderson, and her consulting firm, Exponent, to help us put together the scientific case behind why MOCA can safely be used and should still be on the market.
- Thank you to our generous donors who provided funds for our toxicology work.
 - » PMA has collected \$108,300 to date.
 - We need additional donations to fund the science to defend MOCA.

How have we spent your donations so far?

- Our consultant did a thorough information/data search and analysis of MOCA (Task 1). This included a gap analysis of what data is missing and additional studies that PMA should commission (Task 2).
 - » These tasks cost \$30,982 to complete.

What do we plan to do next with your donations?

- Urinalysis is foundational to the PMA MOCA Safe Handling Program. PMA has adopted the state of California limit of 100 micrograms MOCA per liter of urine but we do not have the scientific basis for such a limit. We plan to determine a MOCA urinalysis limit and the biological basis behind it.
 - » Task 3 – Determine urinalysis limit (Cost: \$16,000).

- Although dermal is the primary route of exposure for workers, how MOCA absorbs into the body is not well understood. We plan to conduct a dermal study in three phases.
 - » Subtask 4.1 – Dermal Absorption Study Scoping, Vendor Selection, and Protocol Development (Cost: \$8,000).
 - » Subtask 4.2 – Dermal Absorption Testing and Report Preparation (Estimated Cost: \$30,000 - \$60,000).
 - » Subtask 4.3 – Occupational Dermal Exposure Model (Estimated Cost: 25,000).
 - » We have sufficient funds to start work on Subtask 4.1 and need to raise additional funds to complete the dermal adsorption study.

- And we have additional work planned, but we cannot proceed without additional funds.

PMA studies are critical for MOCA defense.

- Under the Advocacy Subcommittee, Dr. Steve Seneker coordinated the Emissions and Extraction Study and TCLP Testing. These studies show the safety of properly formulated and cured polyurethane products with respect to MOCA. And they are important to the defense of MOCA in the TSCA review process.
 - » The Emissions and Extraction studies provided data to claim that handling cured polyurethane parts results in MOCA exposures below California Proposition 65 limits.
 - » The Toxicity Characteristic Leaching Procedure (TCLP) testing of cured polyurethane parts show that those parts have extremely low extractable MOCA in landfills.

In conclusion...

- If you have not contributed yet, please consider donating. Your support enables us to continue the scientific work needed to defend MOCA.

The preceding article was shared with PMA members as part of ongoing industry efforts. A task force made up of representatives from member companies—including Anderson Development—has dedicated the past two years to supporting the EPA's evaluation of MBOCA, with the goal of achieving a favorable regulatory outcome that minimizes burden for cast urethane processors.

If you are interested in supporting this effort, please visit www.pmahome.org and select "Contribute to the TSCA MOCA Defense Fund" under Quick Links.

Product data and information is readily available on our mobile app **ADC Urethane Systems**

Download today!

