

Powered by Fortimo™

AndurElite



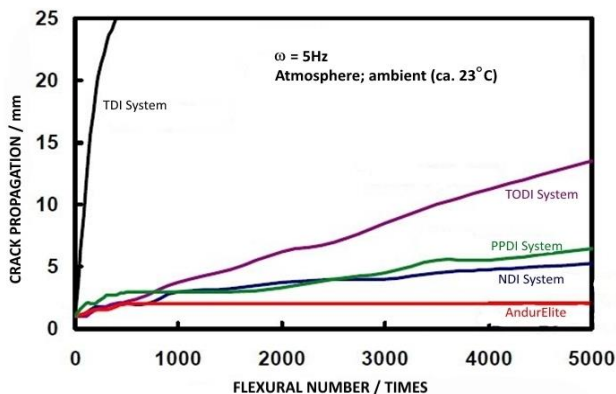
AndurElite™

For applications that require extra dynamic performance and abrasion resistance, the AndurElite™ prepolymer series is empowered by the next generation of ultra high-performance aliphatic diisocyanate. It has a very linear and symmetrical structure with respect to the isocyanate groups, resulting in a highly crystalline hard-segment structure which provides ultra high-performance performance elastomer properties. Its "aliphatic" nature allows a light and color stable elastomer, which is exceptionally well suited for outdoor application or for applications in extreme environments.

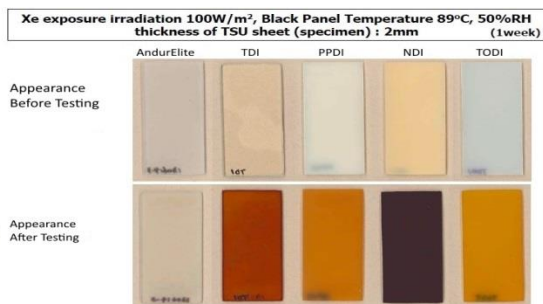
THE PERFORMANCE THAT MATTERS!

PROPERTIES	RESULTS
1) Physical Properties	<ul style="list-style-type: none"> Extremely High Resilience Superior Tear & Abrasion Excellent Flex Fatigue Improved Toughness
2) Color	<ul style="list-style-type: none"> UV Resistance (Exterior Durability) Color Stability (Non-yellowing)
3) Cost Effective to Process	<ul style="list-style-type: none"> Low Moisture Reactivity (No Skinning) Very Long Shelf Life Does Not Sublime Higher Heat Stability (Low NCO Drift)
4) Simple Post Cure and Conditioning	<ul style="list-style-type: none"> Postcure 240F Overnight and 4 Wk Ambient Conditioning

Durability / Crack Resistance (De mattia Flex Fatigue Resistance)



UV Stability- Yellowing Characteristics



Very little color change after Xenon testing. This stability opens the door for choice of colorants to be used in cast systems with little change over long term UV exposure

Improved physical properties

	<u>AndurElite™</u>	<u>PPDI</u>	<u>TODI</u>	<u>Vulkollan® (NDI)</u>
Hardness, Shore	93A	93A	93A	92A
Elongation, %	760	580	650	740
Tensile Strength, psi (MPa)	7400 (51.0)	6100 (42.1)	5000 (34.4)	7100 (53.1)
Split Tear, pli (kN/m)	490 (86)	400 (70)	440 (77)	310 (54)
Bayshore Rebound, %	68	68	57	62

For the optimum overall system:

	<u>AndurElite™</u>	<u>PPDI</u>	<u>TODI</u>	<u>Vulkollan® (NDI)</u>
Physical Properties	Excellent	Excellent	Good	Excellent
Dynamic Properties	Excellent	Excellent	Good	Excellent
UV Resistance (Yellowing)	Excellent	Yellows	Yellows	Significantly Darkens
Storage Stability and Handling	Excellent	Good	Good	Limited
Processing Ease	Excellent	Fair	Good	Short shelf life
Post Cure Processing	Standard	Standard	Standard	Complex

PACKAGING

AndurElite™ prepolymers will be available in 5 gallon pails and 55 gallon drums.

HANDLING

Please use proper health and safety procedures when handling this product. Impervious gloves and goggles should be worn. Avoid contact with eyes, skin, and clothing, and wash thoroughly after handling. Avoid breathing vapor. Use only with adequate ventilation. In absence of good ventilation or under emergency situations, self-contained or air-supplied respiratory protection is recommended. Before use, consult the SDS for AndurElite™ for additional information on potential hazards and handling precautions.

TECHNOLOGY

AndurElite™ series materials are empowered by Fortimo™ technology. This technology, developed by Mitsui Chemicals, is based on new aliphatic diisocyanate called Fortimo™ 1,4-H6XDI (trans-1,4-hydrogenated xylylene diisocyanate). Anderson Development Company is a wholly owned subsidiary of Mitsui Chemicals.

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www.andersondevelopment.com/catagory/polyurethanes/68.html

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