

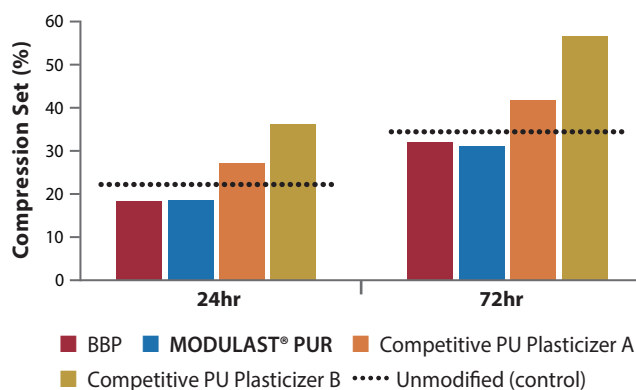
MODULAST® PUR Modifier for Cast Urethane Rollers

Enhance the performance of lower-durometer cast urethane systems for applications such as drive rollers, idler rollers, feed rollers, conveyor rollers, and concave rollers. MODULAST PUR Modifier enables producers to “dial in” an additive solution to lower hardness, reduce multiple formulations and raw materials SKUs for products with different durometers, and maintain the urethane’s superior mechanical properties.

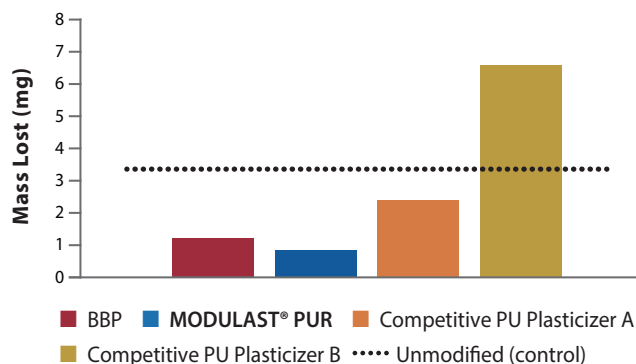
- **Sets the bar with unparalleled quality:** Extremely high, tightly controlled purity results in more complete, efficient reactions of the polyol and isocyanate.
- **Enhance aesthetics:** Improve part color and clarity for both pigmented and non-pigmented applications.
- **Exceptional adhesion:** Maintain the strong bonding properties of urethane, with excellent compatibility and minimized exudation.
- **Maintain load bearing capacity:** Decrease compression set, helping to prevent shape deformation of load-bearing parts.
- **Excellent strength & toughness:** Reduce the chance of part failure due to wear, tear, or abrasion, with enhanced resilience / flexibility.



Maintain Shape (Compression Set, ASTM D395)



Resist Wear (Abrasion Resistance)





MODULAST®

MODULAST® PUR

Our highest purity, lowest OH offering for polyurethanes

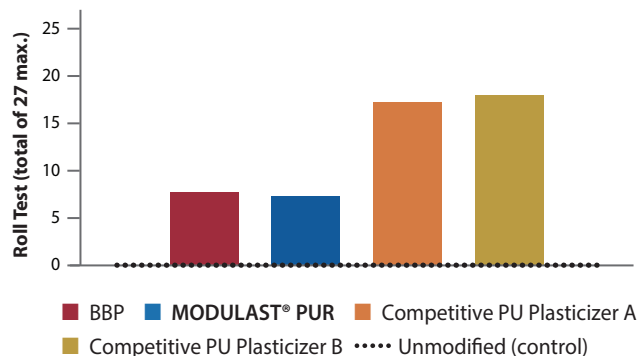
MODULAST PUR is a proprietary composition tailored for polyurethanes, featuring the lowest hydroxyl level on the market, exceptional color in the finished product, low odor, and very high permanence.

It can be used in higher concentrations to optimize economy by offsetting expensive raw materials. Excellent HS&E profile, with a low freeze point and no GHS labeling requirements in the US or Europe.

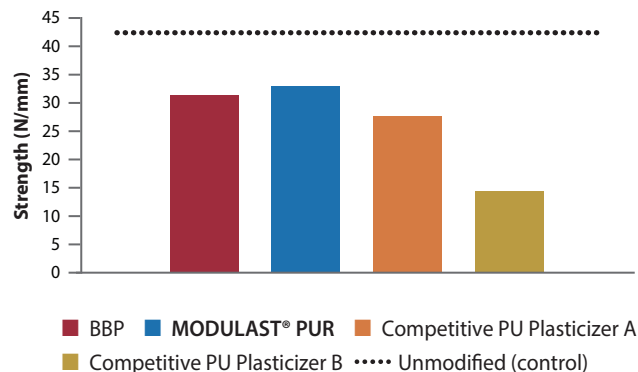
Emerald Kalama Chemical is the leading global producer of benzoic acid, benzaldehyde, and related chemistries, with operations in the U.S. and Europe certified to meet the highest standards, including ISO 9001:2015 and ISO 14001:2015.

Emerald's portfolio includes a wide range of solutions for industrial specialties, including K-FLEX® plasticizers and coalescents, Kalama® VITROFLEX® plasticizers for polysulfides, and Purox® and Kalama® benzoates and intermediates.

Minimize Exudation (Roll Test, 60°C)



Resist Tearing (Tear Strength, ASTM D624-C)



The graphs depict performance in test PU compound MDI:BDO:Polyol 5:4:1; NCO:OH 1.02:1 formulated to 60 Shore A hardness (29 +/- 2% loading of plasticizer or modifier as needed).

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