REAXIS

BIO-BASED CATALYSTS

A CATALYST LINE BUILT ON SUSTAINABILITY

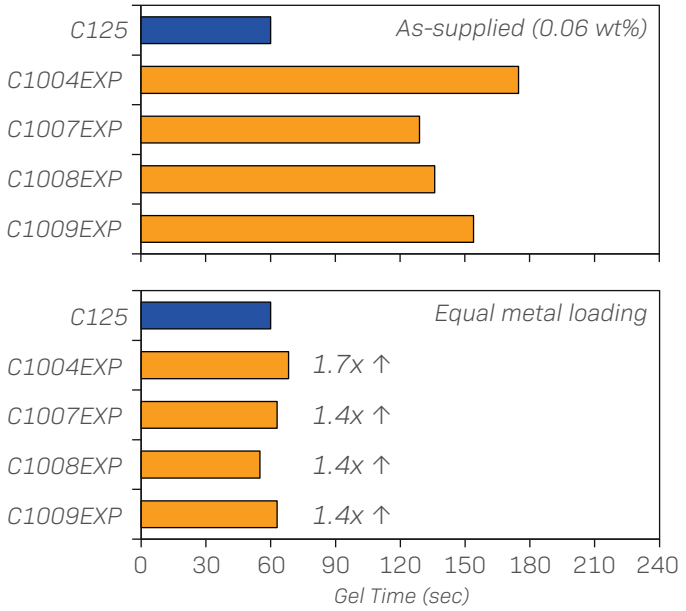
The environmental, human health, and the economic advantages realized through green chemistry are serving as strong incentives for industry to adopt greener technologies. REAXIS® is poised to deliver sustainably sourced catalysts that are completely derived from plant-based and recycled materials. Introducing, REAXIS® C1004EXP, C1007EXP, C1008EXP and C1009EXP, a family of renewable catalysts for urethane, ester and silicone chemistries.

The Chemistry & Toxicity of Inorganic Tin: A Mini Review

FORMULATE FOR THE FUTURE

Inorganic tin-based catalysts, e.g. stannous octoate (REAXIS® C129) & stannous neodecanoate (REAXIS® C125), are commonly employed as critical performance additives in the manufacturing processes of numerous urethane, ester and silicone based products. Continually evolving regulatory and classification changes surrounding these catalysts present a significant challenge to formulators: find an alternative catalyst with similar performance and minimal hazards all while conserving the bottom line. New bio-based inorganic tin catalysts developed at REAXIS® are manufactured to maximize sustainability while harnessing the reactivity and low toxicity of inorganic tin. The performance of these low-viscosity alternatives can be fine tuned to easily replace industry standard catalysts as shown in Figure 1. This is the future of inorganic tin catalysis.

FIGURE 1. Catalytic performance in a 2-part urethane elastomer formulation



REAXIS® Product	Metal Content (%)	Bio-Derived Content (%)	Viscosity / 20 °C (cPs)	Recycled Tin Source
C125	22 %	0 %	< 5,000	○
C1004EXP	15 %	85 %	< 500	◐
C1007EXP	16 %	84 %	< 400	◐
C1008EXP	18 %	82 %	< 600	◐
C1009EXP	17 %	83 %	< 500	◐

○ *Option not available* ◐ *Manufactured upon request*

CONTACT US

Phone: 800.426.7273
Email: techservice@reaxis.com
Web: www.reaxis.com

Global Headquarters and Sales
941 Robinson Highway
McDonald, PA, 15057 USA

Tech. Service / R&D
2120 William Pitt Way, Building B3
Pittsburgh, PA, 15238 USA

European Sales Office
Siriusdreef 17-27, 2132WT
Hoofddorp, The Netherlands