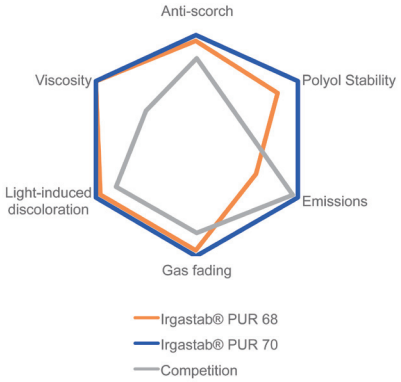
Irgastab® PUR 70

New Anti-Scorch Package for Polyol & PU Foams Meeting Latest Emissions Requirements

BASF
We create chemistry

Premium-grade Package for Polyol & PU Foams

- Superior scorch resistance
- Amine-free, aromatic-solvents-free solution
- Extremely low emissions
- Reactive
- Exceptional resistance to gas fading (NOx exposure)
- Exceptional resistance to light exposure induced discoloration
- Easy-to-handle liquid form
- Synergistic blend - maximizing performance / loading ratio
- Environmentally friendly



Function of Anti-Scorch Packages

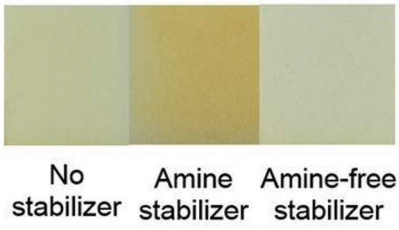
Anti-scorch packages are synergistic combinations of thermal stabilizers, and are used to prevent thermal-oxidative degradation of Polyol and PU flexible foams.

During high scorch reactions, use of anti-scorch packages prevents foam discoloration, loss of mechanical properties, and, in extreme cases, fire.

Furthermore, even considering low scorch reactions, anti-scorch packages provide protection against degradation at extremely low dosing levels.

Anti-scorch packages are beneficial for all flexible foams.

Foams Gas Fading



Constantly Evolving, More and More Challenging Industry Requirements

From furniture & bedding to automotive and sport applications, quality requirements are becoming more rigorous for foams used across the different industries.

In the eyes of these industries, white foams are perceived as high quality foams. In order to maintain whiteness, scorching must be avoided during foaming and discoloration upon light exposure/gas fading must be avoided during storage, before foams are converted into final articles.

Amine-free anti-scorch packages combine all these aspects.

Focus on Emissions

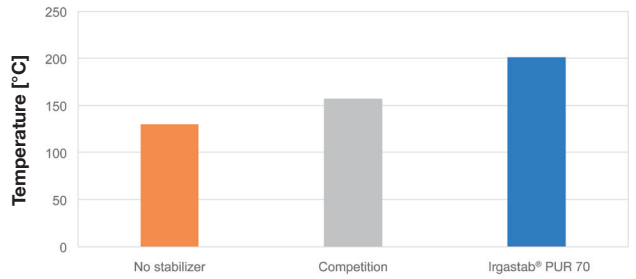
In recent decades, industry has evolved toward environmentally-friendly, health-conscious, and sustainable product solutions. Subsequently, the attention paid to final article volatile component emission has greatly increased. As leaders in this push for environmental and health cognizance, automotive OEMs have been setting the most stringent material and final article emissions requirements, with VDA 278 10/11 raising the standard to new levels to enhance vehicle interior air quality (VIAQ).

Anti-scorch packages prevent degradation of Polyol / PU foams, helping to avoid formation of volatile side products.

Photo: Courtesy of Faurecia Seating

Polyol Stability

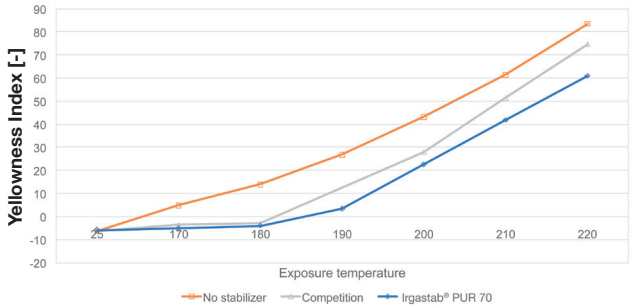
Polyol auto-oxidation temperature (DSC)



Irgastab® PUR 70 provides superior Polyol stability

Anti-Scorch Performance

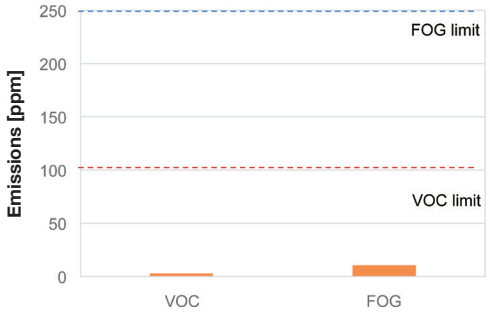
PU flex foam discoloration upon heat ageing



Irgastab® PUR 70 provides superior scorch protection

Emissions

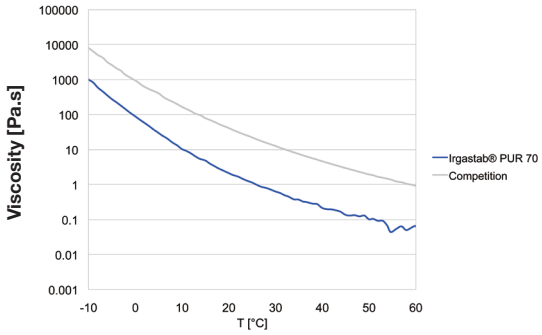
PU Flex foam stabilized with Irgastab® PUR 70
Emissions from anti-scorch package (VDA 278 10/11)



Irgastab® PUR 70 yields extremely low emissions

Viscosity

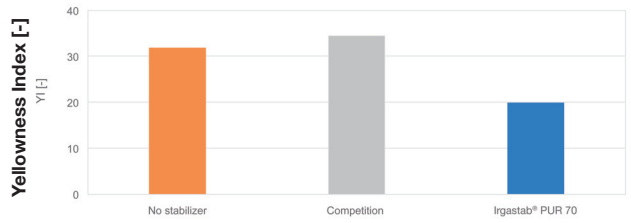
Viscosity vs temperature curve



Irgastab® PUR 70 is an easily-handled liquid

Gas Fading Resistance

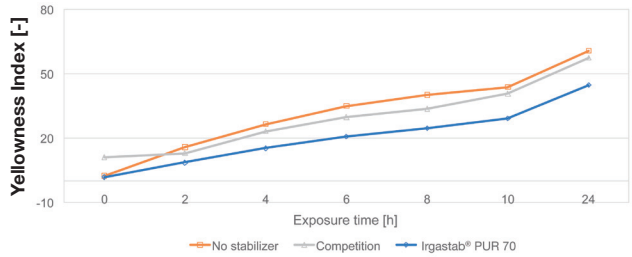
PU Flex foam discoloration upon gas fading test



Irgastab® PUR 70 shows exceptional gas fading resistance

Discoloration Upon Light Exposure

PU Flex foam discoloration upon light exposure



Irgastab® PUR 70 shows exceptional resistance to light-induced discoloration

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