

TGA Data for Polyramic® SPR-212



POLYMER-TO-CERAMIC™ TECHNOLOGY

Polyramic® SPR-212 is a liquid precursor to thermally stable silicon oxycarbide ceramics. Figure 1 shows TGA traces for SPR-212 without any initiators or catalysts, with 5 ppm platinum catalyst or with 0.25 phr dicumyl peroxide. Other platinum catalysts, organic peroxides and free radical initiators suitable for silicones with similar functionalities may also be used to achieve similar results.

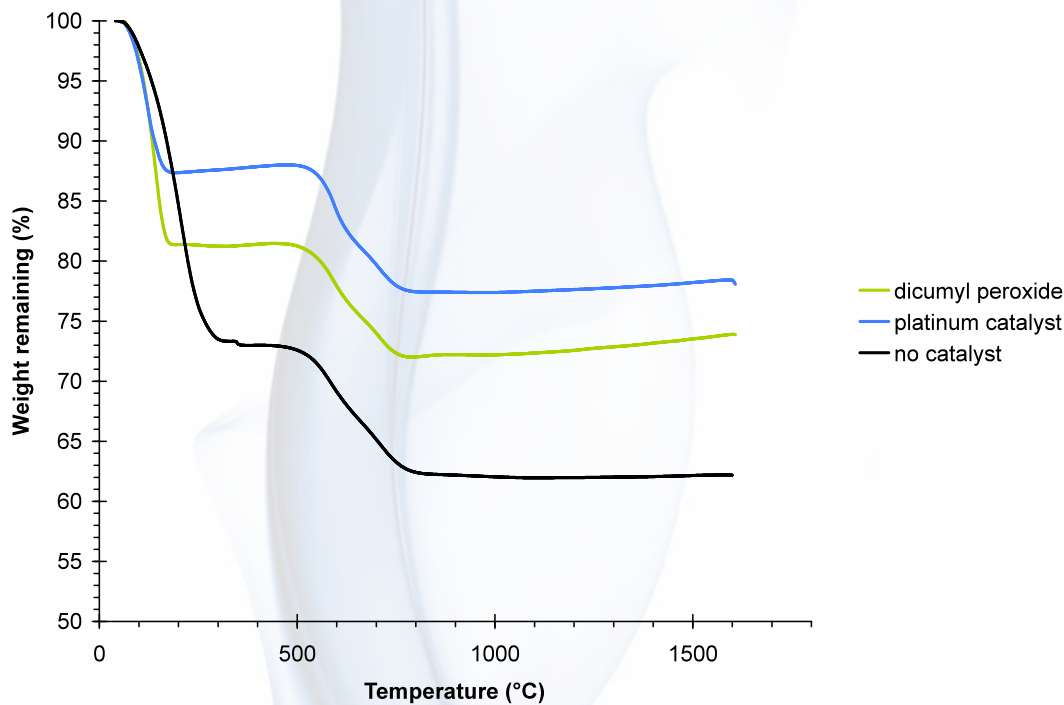


Figure 1 TGA traces for SPR-212 with no catalyst, 5 ppm platinum catalyst or 0.25 phr dicumyl peroxide.

¹ All TGA data was taken at 10°C/min in argon.

² Platinum catalyst is CAT-776, available from Starfire Systems, Inc.

³ Dicumyl peroxide was added as a 50 wt% solution in toluene.

Warranty

No analysis of this product is permitted. The data provided relates only to the material identified above, as supplied by Starfire Systems®, Inc. (SSI). Because conditions and methods of use of our products are beyond our control, this information should not be used as a substitution for customer's tests to ensure that SSI's products are safe, effective, and fully satisfactory for the intended end use. SSI's sole warranty is that the product will meet sales specifications in effect at the time of shipment.