

High-Performance Polyimide Coatings for Mild Steel: The Impact of Benzophenone, Biphenyl, and Bisphenol-A Core Structures

Sukanta Badaik^{1, 2, \$}, Suryakanta Nayak^{2, *}, Balram Ambade¹, Tapan Kumar Rout^{2, *}

¹Department of Chemistry, National Institute of Technology Jamshedpur, 831014, India.

²R&D, Surface Engineering Research Group, Tata Steel Limited, Jamshedpur 831001, India

^{\$} Joint Ph.D. scholar of the Department of Chemistry, National Institute of Technology, Jamshedpur and R&D, Surface Engineering Research Group, Tata Steel Limited.

Corresponding Author: Tapan Kumar Rout and Suryakanta Nayak

Email ID: tapankumarout@tatasteel.com and suryakanta.nayak@tatasteel.com

TGA

The thermal behaviour of PI-1, PI-2, and PI-3 polyimide films was investigated by TGA and is shown in **Fig. S1**.

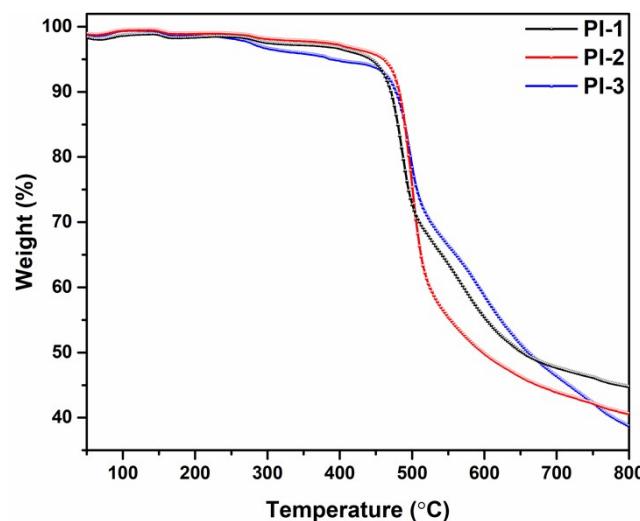


Fig. S1. TGA graph of PI-1, PI-2 and PI-3.