American Dye Source, Inc.

PRODUCT BULLETIN

Revised August 2007

CONJUGATED POLYMER FOR ORGANIC SOLAR CELLS AND SENSORS

ADS508PT

INTRODUCTION

Thiophene polymers have attracted a lot of research attention in the past 10 years due to their potential applications in electronics and sensing devices. American Dye Source, Inc. is now offering from gram to kilogram quantity low metal content ***regioregular*** *and* ***regiorandom*** *thiophene polymers and copolymers in solid forms or in solutions.*

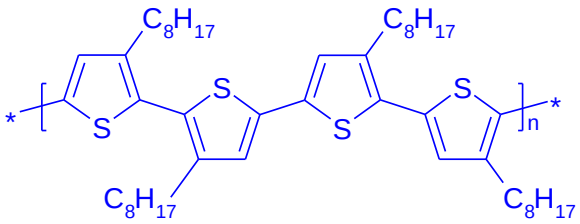
DESCRIPTION

ADS508PT *is a regiorandom poly(3-octyl-thiophene-2,5-diyl). This polymer is highly soluble in toluene, chlorobenzene, and tetra-hydrofuran.* ***ADS508PT*** *can be used for fabrication of organic solar cells, sensors and other electronic devices.*

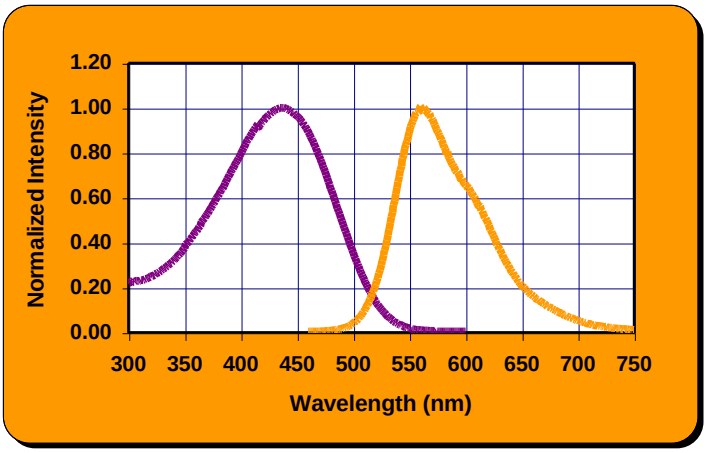
TECHNICAL DATA

- *Appearance: Dark brown fiber or flake*
- *Molecular weights: 50,000 – 150,000*
- *Metal Content: < 100 ppm*
- *Absorption maximum: 435 nm*
- *Photoluminescent maximum: 562 nm*
- *Storage: under Nitrogen atmosphere*

STRUCTURE



SPECTRA



Absorption and emission spectra of ADS508PT in THF solution

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