

LOW METAL CONTENT CONJUGATED POLYMER FOR OTFT APPLICATION

ADS12PQT

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.

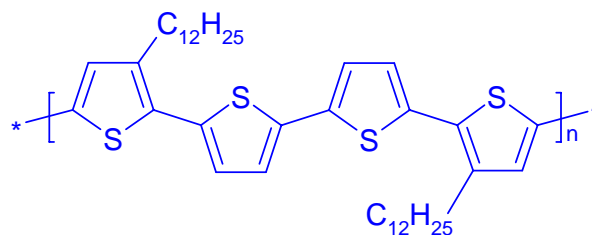
DESCRIPTION

ADS12PQT is a regioregular **Poly(3,3'-didodecyl quarter thiophene)**. This polymer is highly soluble dichlorobenzene, chlorobenzene, toluene, and tetrahydrofuran. **ADS12PQT** can be used for applications in organic thin-film transistors (OTFT), as well as in electronic devices such as organic solar cells and sensors.

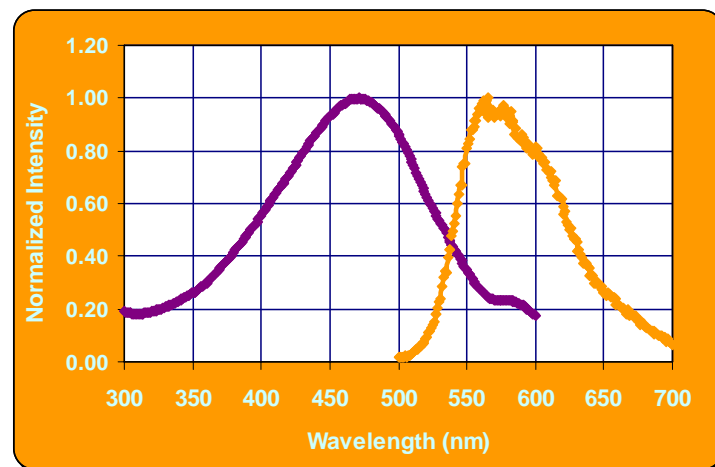
TECHNICAL DATA

- ❑ Appearance: Dark red powder
- ❑ Molecular weights: 15,000 – 30,000
- ❑ Absorption maximum: 471 nm
- ❑ Photoluminescent maximum: 562 nm
- ❑ LUMO & HOMO: 2.97 & 5.24 eV
- ❑ Storage: under Argon atmosphere

STRUCTURE



SPECTRA



Absorption and emission spectra of ADS12PQT in THF solution

CONTACT INFORMATION

American Dye Source, Inc.

555 Morgan Boulevard
Baie d'Urfe, Quebec, Canada H9X 3T6
Tel. 514 457-0070
Fax 514 457-0071
Website: www.adsdyes.com
E-mail: info@adsdyes.com

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