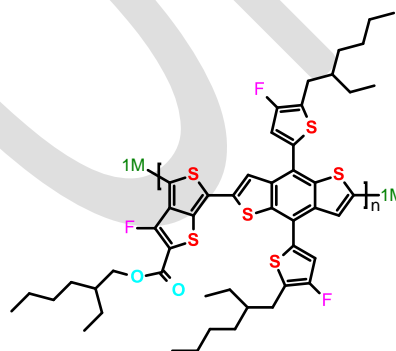


CERTIFICATE OF ANALYSIS

1M Material: PB-3F, PCE10-2F, custom made and offered it is.
Common Name: PCE10-2F, PB-3F
Chemical Name: Poly([2,6'-4,8-di(5-(2-ethylhexyl-3-fluoro)thienyl)benzo[1,2-b;3,3-b]dithiophene){3-fluorothieno-2[(2-ethylhexyl)caronyl]thieno[3,4-b]thiophenediy1})
Chemical Structure:

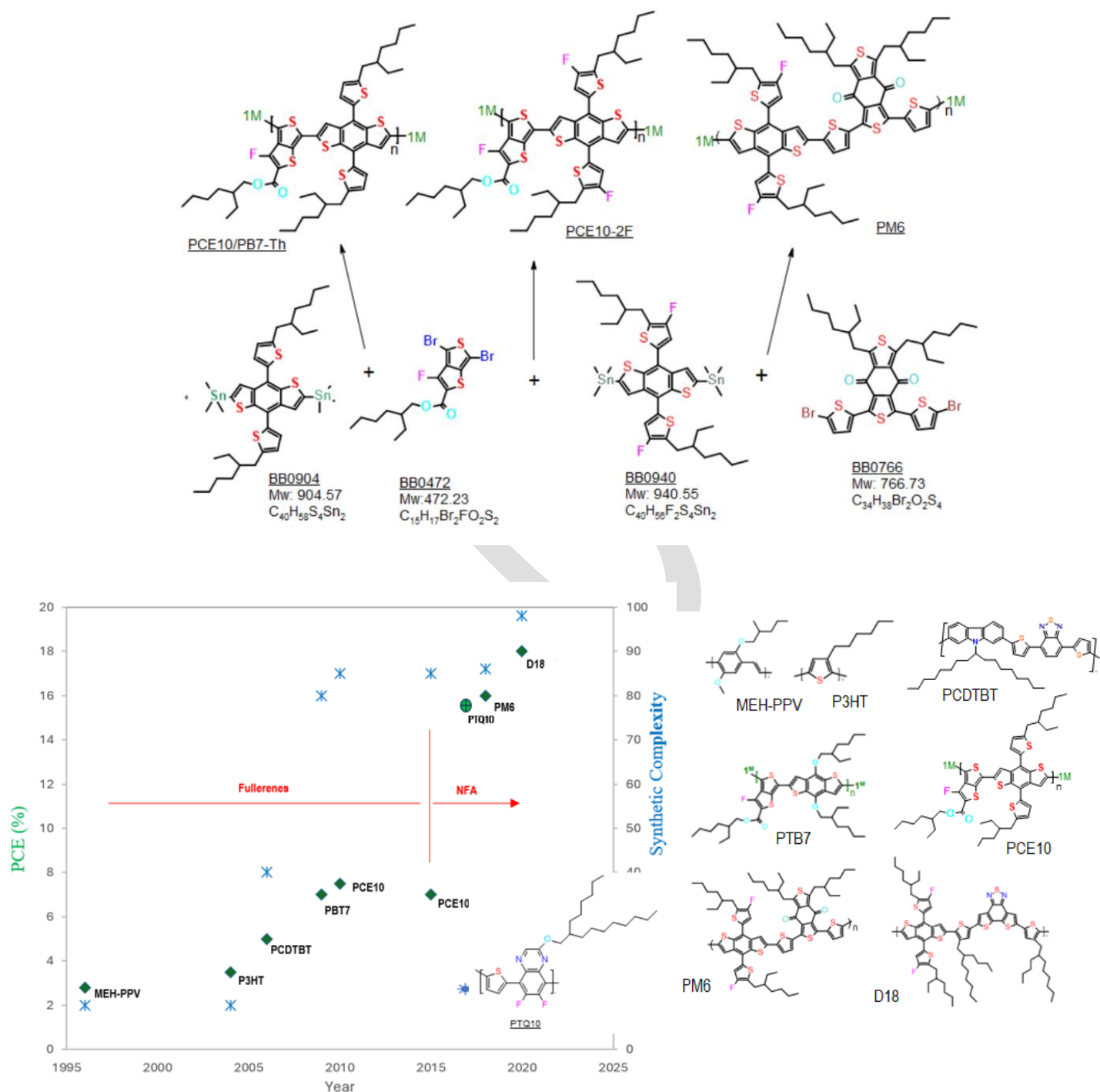


1M proprietary end-capped

Lot number: YY26116CH
Appearance: Deep purple solid
Molecular weight (GPC): ~180K (Mw, PS Standard), polydispersity(PDI): ~1.5
Solubility: Soluble in CHCl₃, CB, and ODCB

1-Material is dedicated to provide the material according to customer's needs, and some material we promoted may be solely offered to certain customers for their specific needs in their research and development projects on a custom synthesis basis or on a contract research basis. All the material is offered as it is, along with the information and technical advice-where verbal, in writing or by way of trials-are given in good faith and are believed to be accurate but without warranty since the conditions of use are beyond the control of 1-Material, and this also applies where proprietary rights of third parties are involved. For the condition and term of our offer and service, please consult the disclaimer in our web: www.1-material.com

PCE10-2F, a hybrid between PCE10 and PM6, 1M's view on evolution of solar polymers:



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