

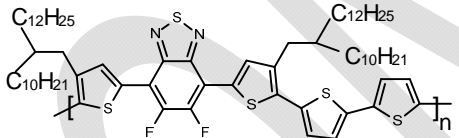
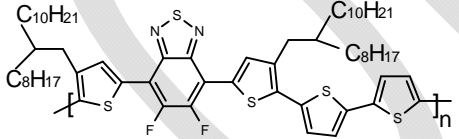
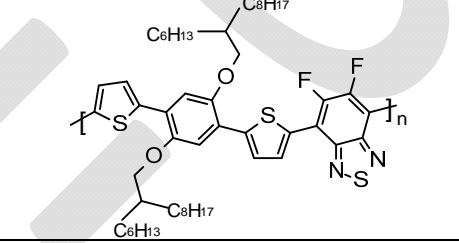
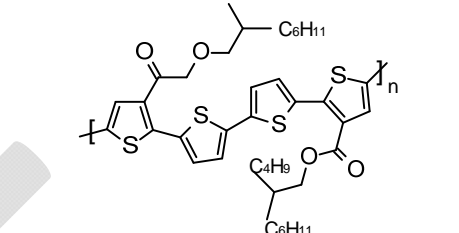
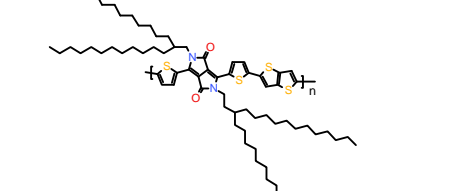
Organic Nano Electronic(ONE=1)materials for these who understand quality



Courtesy of Technical University of Denmark
Image taken from DOI: 10.1039/C4EE01223B

Roll-to-Roll (**R2R**) printing in ambient conditions without the use of vacuum is the pathway toward flexible and **low cost** polymer solar cells, as such the donor polymers are designed to meet following targets.

Thickness	Stability	Acceptor	PCE(%)
400 ± 200 nm	>150 °C	PC ₆₀ BM	9 ± 2
Thick & Tolerant	Annealing & Lamination	Comparable & Economic	Decent & Reproducible

IM Code	Common Name	Structure	Remarks
R2R001 OS0607	FBT-Th4 CAS#1430201-60-7		Adv. Mater. 2014, 26 , 2586 PCE = 6.53 -7.64% FF = 0.577 -0. 621 Thickness: 100 - 440 nm
R2R002 PCE-11	PffBT4T-2OD		DOI: 10.1038/ncomms6293 PCE = 9.6 -10.8% FF = 0.73-0.77 Thickness: 250 - 300nm
R2R003 OS0075	PPDT2FBT CAS#1620673-07-5		Energy Environ. Sci. 2014, 7 , 3040 PCE = 9.39% FF = 0.73 Thickness = 290 nm
R2R004 OS0175	PDCBT CAS#1609536-17-5		Adv. Mater. 2014, 26 , 5880 PCE = 7.2% FF = 0.72 Thickness = 230 nm
R2R005 OS0300	DT-PDPP2T-TT		Adv. Mater. 2013, 23 , 3182 PCE = 6.9% FF = 0.74 Thickness = 300 nm

Other thick film solar polymers may also be considered, please contact info@1-material.com for more information.