

PBT 德国巴斯夫 B4406G6 Q717 卤素阻燃 增强级 30%玻纤 注塑级

产品名称	PBT 德国巴斯夫 B4406G6 Q717 卤素阻燃 增强级 30%玻纤 注塑级
公司名称	京冀（广州）新材料有限公司
价格	26.00/千克
规格参数	PBT:卤素阻燃 德国巴斯夫:注塑级 B4406G:增强级
公司地址	广州市南沙区丰泽东路106号（自编1号楼）X1301-E014087（注册地址）
联系电话	18938547875 18938547875

产品详情

在三种双受体聚合物中，具有中等Mn的PNDI-BT在单极n型有机晶体管中表现出高的电子迁移率，高达 $0.6 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ ，这主要得益于其相对平面的主链以及低未占据分子轨道较大的重叠等。值得注意的是，通过CH活化合成的PNDI-BT的晶体管性能与传统的C(Sp²)-C(Sp²)-Stille法合成的PNDI-BT性能相当。后研究了聚合物分子量对器件性能的影响以及基于三种聚合物的器件的空气稳定性。

综上，展示了一种简单而有效的利用双受体策略和DArP结合合成n型聚合物的方案。所得到的双受体聚合物能够显示出良好的~10到30kg mol⁻¹的摩尔质量和相对较窄的~2的多分散性指数。此外，作者将三种n型聚合物在相同DArP条件下摩尔质量的较大差异，归因于氢化受体单元的 -C-H酸度不同，并通过计算氢原子上的电荷值来进一步研究这一点。作者还全面研究了氢化受体单体对光学和电化学性质、分子几何形状和电荷运输的影响。

Among the three kinds of dual-receptor polymers, PNDI-BT with medium Mn has the highest electron mobility in unipolar n-type organic transistors, up to $0.6 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$, which is mainly due to its relatively flat main chain and the large overlap of the lowest unoccupied molecular orbitals. It is worth noting that the transistor performance of PNDI-BT synthesized by C H activation is equivalent to that of PNDI-BT synthesized by traditional C (Sp²) - C (Sp²) - Tile method. Finally, the influence of polymer molecular weight on device performance and the air stability of devices based on three polymers are studied.

To sum up, a simple and effective scheme for synthesis of n-type polymer by combining dual-receptor strategy with

DArP was demonstrated. The dual-receptor polymer obtained can show a good molar mass of ~10 to 30 kg mol⁻¹ and a relatively narrow polydispersity index of ~2. In addition, the author attributed the large difference in molar mass of three n-type polymers under the same DArP condition to - The acidity of C-H is different, and the charge value on hydrogen atom is calculated to further study this point. The effects of hydrogenated receptor monomers on optical and electrochemical properties, molecular geometry and charge transport were also comprehensively studied.