國立臺灣大學技術行銷表

台大案號: 06A-100518 (由產學合作中心填寫)

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產品/技術名稱	具有高折射率之聚醯亞胺硫醚		
發明人/單位	劉貴生、顏宏儒、陳文章/高分子科學與工程學研究所		
產品/技術說明	本發明為高折射率之新穎聚醯亞胺硫醚,其係光學各向同性、 透明且熱塑性之高分子。本發明之高分子易溶於各種有機溶劑 且顯示高熱安定性、高玻璃轉移溫度,其亦顯示高的光折射率 及超低雙折射率。		
應用範圍	有機發光二極體(OLED)之封裝物		
産品/技術優勢	依據本發明,可易於藉由 Michael 聚加成反應自各種雙馬來醯亞胺及二硫醇製備一系列熱塑性聚醯亞胺硫醚,且所獲得之聚合物顯示有用之熱加工範圍。本發明所獲得之聚醯亞胺硫醚在323-353nm 範圍內之截取波長展現高光學透明度,且顯示高的折射率及 Abbe's 數且雙折射率最低亦可達到 0.0002。		
市場潛力	本發明之聚醯亞胺硫醚聚合物為光學各向同性之熱塑性材料而 展現充分平衡之光學性質,且由於在有機溶劑中之良好溶解度而 可利用溶液澆鑄法、旋轉塗佈法、噴墨印刷法、射出模製法等簡 便方法應用於光學應用中。		
產品/技術 智財權保護方 式	(由產學合作中心填寫)		
圖片	SO ₂ -C ₂ SO ₂ -S		

Marketing Abstract of NTU's Invention Disclosure

NTU's docket no:_____(由產學合作中心填寫)

CIAC contact:	Tel:	e-mail:	
Title	Polyimidethioethers Having High Refractive Index		
Inventor (s)	Guey-Sheng Liou, Hung-Ju Yen, Wen-Chang Chen/ Institute of Polymer Science and Engineering		
Brief Description	thermoplastic polyimido index were prepared <i>via</i> available bismaleimides a soluble in various organ stability associated with	optically isotropic, transparent, and thioethers (PITEs) with high refractive Michael polyaddition from commercially and dithiols. These polymers were readily tic solvents and showed useful thermal high glass-transition temperatures. These high refractive index and ultra-low	
Fields of Application	LEDs encapsulatio		
Advantages	readily prepared from polyaddition. The obta processing window up exhibited high optical trange of 323-353 nm, and numbers, in the range	g, a series of thermoplastic PITEs could be the BMIs and dithiols <i>via</i> Michael ined polymers showed useful thermal to 190 °C. All the amorphous polymers ansparency with cutoff wavelength in the revealed high refractive index and Abbe's of 1.6763 to 1.6243 and 20.1 to 32.2, the lowest birefringence of 0.0002 could	
Market Potential	well-balanced optical proptical waveguide or en-	otropic thermoplastic PITEs exhibiting operties are promising candidates for capsulant materials in advanced optical plution casting and injection molding	
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