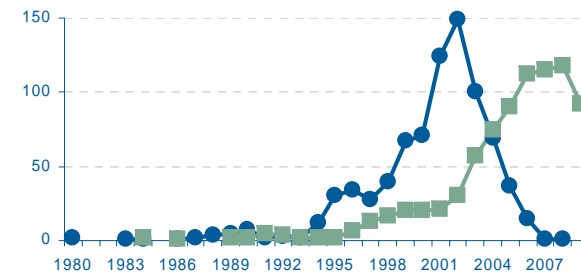


Patents covering encapsulation and barrier technology have grown rapidly with more than 90% of the patents in this dataset appearing since 2001

- Since 2001 there has been an explosive growth in the number of encapsulation and barrier patents being filed
- This increase coincides with increasing commercialisation of OLED displays
- There are 800 granted patents within the dataset
 - EP account for 78
 - US account for 722
- There are 4,927 published patents within the dataset
 - EP account for 475
 - JP account for 2,473
 - US account for 2,141
 - WO account for 560

Granted patents - 1980 - 2009

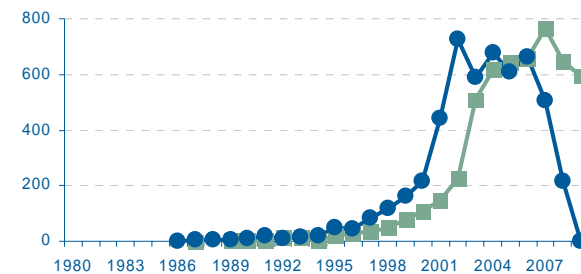
Granted Patents issued at EP and US PTOs
Priority Year and Publication Year



Source: cintelliq Limited 2010

Published patents - 1980 - 2009

Published Patents issued at EP, JP, US and WO PTOs
Priority Year and Publication Year

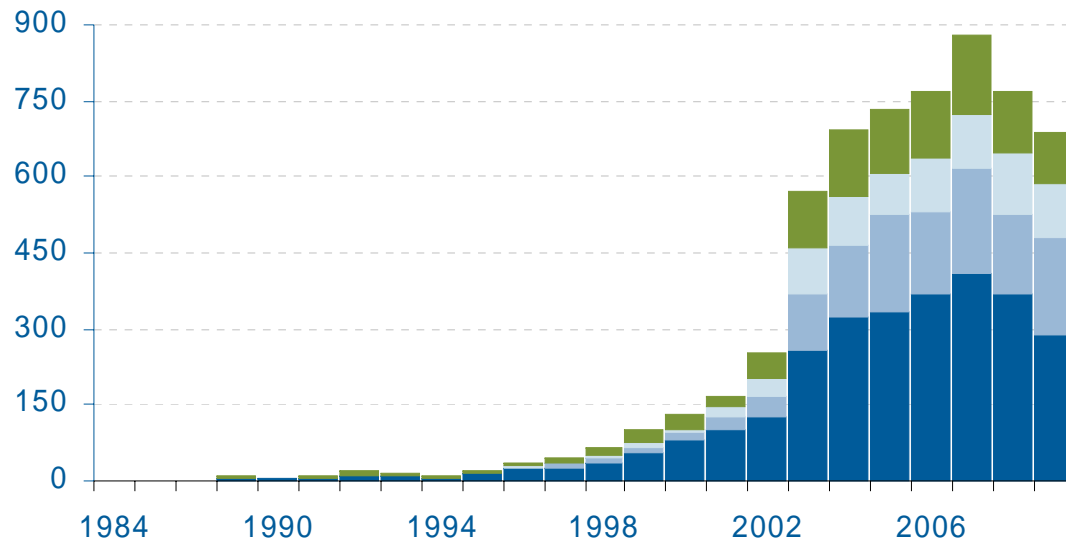


Source: cintelliq Limited 2010

The majority of patents in the dataset make reference to “sealing” however reference to encapsulation and barrier as a percentage is increasing

Technology clusters

Granted and Published Patents issued at EP, JP, US and WO PTO
Publication Year



Source: cintelliq Limited 2010

Technology Clusters	
Not Specified	1,005
Encapsulation	734
Barrier	1,213
Sealing	2,775
Total	5,727

Cluster	2000	2009
Seal	61%	43%
Encap and Barrier	18%	48%