

Case study: Reducing maintenance cost in FPD industry

TOMBO™ No. 2670/2675/2680/2685 BLAZER™ O-ring



Industry

FPD / Semiconductor

Customer

LCD Panel Manufacturer

Background

In etching processes for TFT-LCD and AMOLED, many rubber O-rings are used for the maintenance of production equipment. However, customer's current solution had a short lifespan resulting in increased maintenance frequency every two months and incurred additional labour costs. As a result, customer was looking for O-rings that had longer life span which would reduce overall maintenance costs.

Challenges faced

The customer was reluctant to trialling a new solution due to the involved risk of different performance. If there are quality and compatibility issues, these can lead to equipment damage or even failure. So any new solution would need to be match-to-match for current O-rings but with longer life span than what customer currently had.

Solution and benefits

Nichias develops high-performance O-rings. Therefore, the team had sufficient technical information, support, and analysis equipment to appropriately evaluate customer's requirements. Therefore, NICHIAS can conduct data-based scientific evaluation and identify durability concerns such as chemical resistance within the existing O-ring solution.

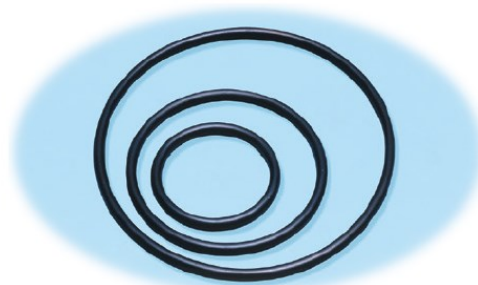
By doing this match-to-match investigation, NICHIAS was able to recommend the BLAZER™ O-ring product line which has a superior chemical resistance. This in turn increases its durability.

By adopting this solution, customer was able to increase the life span from 2 months of the original solution to 6-12 months with the BLAZER™ product line.

Although the price is higher than conventional products, the reduced replacement frequency leads to improved cost performance. As a result reduction in maintenance costs and improved productivity were achieved.

For more information, please visit:

<http://www.nichias.co.jp>



BLAZER™ O-ring

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