

Global Polarizers and Component Films Market: Key Research Findings 2015

◆ **Research Outline**

Yano Research Institute has conducted a research on the global polarizers and their component films market with the following conditions:

1. Research period: January to April, 2015
2. Research target: Manufacturers of polarizers, retardation films, PVA protection films, and surface processed films
3. Research methodologies: Face-to-face interviews by the expert researchers, surveys via telephone and email, and literature research.

<What is a Polarizer? >

A polarizer is an optical filter that passes light of a specific polarization and blocks waves of other polarization. The polarizers in this research especially indicate those polarizing filters used for LCD (Liquid Crystal Display), including those polarizers for TFT (Thin Film Transistor)-LCD, for TN (Twisted Nematic)-LCD, and STN (Super Twisted Nematic)-LCD.

<What are Polarizer Component Films?>

Polarizer component films in this research indicate retardation films, PVA (Polyvinyl Alcohol) protection films, and surface processed films, such as AG (Anti-Glare)/CHC (Clear Hard Coat).

◆ **Key Findings**

■ **Global Polarizers and Component Films Market in FY2014 Attained 476.05 Million M², 112.7% of Size in Previous Fiscal Year**

Size of the global polarizers and their component films market in FY2013 was 422.40 million square meters, whereas in FY2014 it is expected to expand to 476.05 square meters, 112.7% of that in the previous fiscal year, based on the shipment volume of manufacturers. Although the polarizers for TN-LCD and for STN-LCD have robust demands from developing countries, those for TFT-LCD occupy 98% of the entire market.

■ **Global Market of Polarizers for TFT-LCD in FY2014 Projected to Attain 466.0 Million M², 113.1% of Size in Previous Fiscal Year**

466.0 million square meters of polarizers for TFT-LCD is expected to be shipped globally in FY2014, size of which is 113.1% of that in the previous fiscal year. The market growth stems mainly from the UHD (Ultra High Definition) TVs with 45 inches in size or more. Because of low yield rate of polarizers for such TVs, the demand for those polarizers are considered to become larger than the actual production volume of LCD panels. Among the global market of polarizers for TFT-LCD, the polarizer demands for TVs occupy 70%, so that the shipment volume for TVs significantly influences the entire polarizers market.

■ **Torrent of Production Enhancement at Chinese Polarizer Manufacturers**

Most of the polarizer manufacturers in China planning to newly establish or to extend their production lines is likely to launch those production lines by 2016, to be in time for the launch of new production lines built at one of the users of such polarizers, LCD panel manufacturers. Production enhancement at polarizer manufacturers in China seems to aim not only Chinese LCD

panel manufacturers but also South Korean and Taiwanese LCD manufacturers who are shifting the production bases to China.

◆ **Report Format:**

Published report: “Polarizer and Polarizing Optical Film Market 2015 (Annual Report)”

Issued on: April 30, 2015

Language: Japanese

Format: 213 pages in A4 format

Price: 150,000 yen (The consumption tax shall additionally be charged for the sales in Japan.)

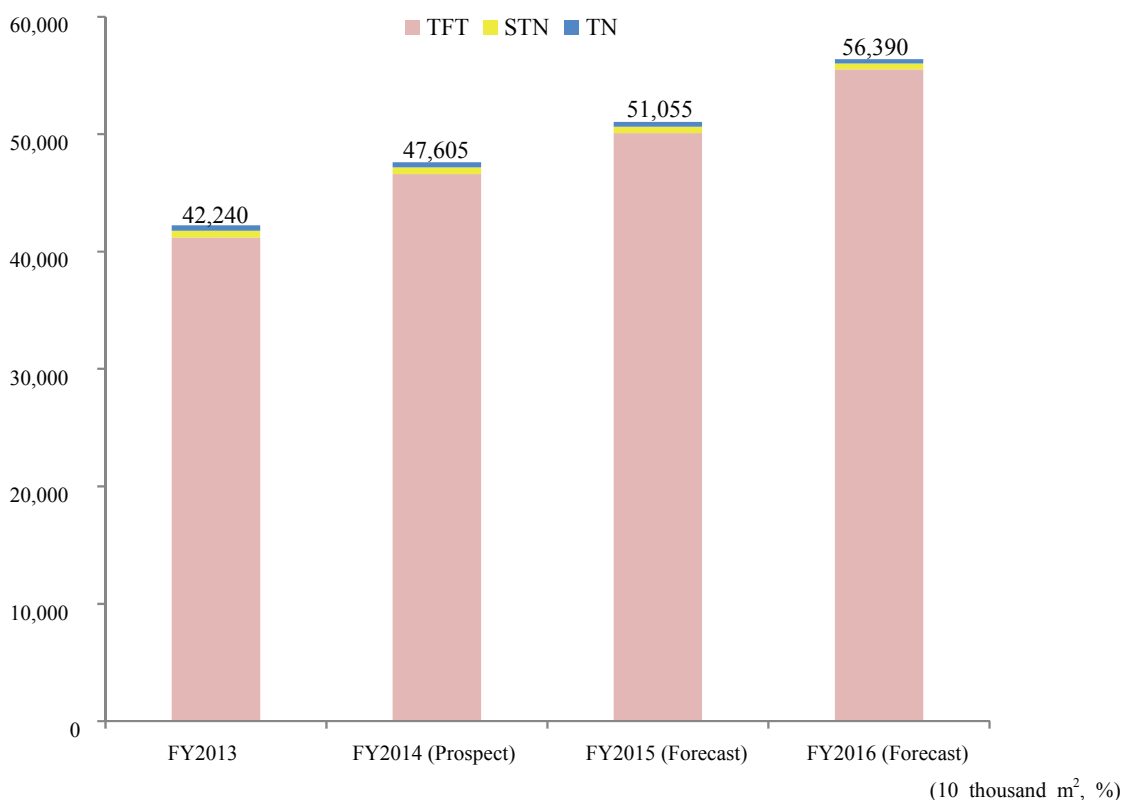
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■ **Figure 1: Transition and Forecast of Global Polarizer Market Size by LCD Type**



	2013		2014		2015		2016	
		Y-o-Y		Y-o-Y		Y-o-Y		Y-o-Y
TN	460	1.1%	440	0.9%	425	0.8%	385	0.7%
STN	580	1.4%	565	1.2%	530	1.0%	500	0.9%
TFT	41,200	97.5%	46,600	97.9%	50,100	98.1%	55,505	98.4%
Total	42,240	100.0%	47,605	100.0%	51,055	100.0%	56,390	100.0%
Y-o-Y	?		112.7%		107.2%		110.4%	

Notes:

Calculated by Yano Research Institute

1. The market size is based on the shipment volume of manufacturers.
2. The market demands for polarizers do not match with the global actual production volume of LCD due to low yield rate of polarizers.
3. Polarizers for TFT (Thin Film Transistor)-LCD include those for TN, IPS, and VA modes, as well as those for PM-VA, for AMOLED, and for 3D displays (FRP films).