

## Indium Corp. Fine ITO Indium Tin Oxide

Category : Ceramic , Oxide

**Material Notes:**

Indium Tin Oxide (ITO, or tin-doped indium oxide) is a mixture of indium(III) oxide and tin(IV) oxide, typically 90% indium oxide, 10% tin oxide by weight. In powder form it is yellow-green in color but it is transparent and colorless when deposited as a thin film at thicknesses of 1000-3000 angstroms. When deposited as a thin film on glass or clear plastic it functions as a transparent electrical conductor. Fine ITO: The primary particles are regularly shaped ranging in size from 0.1 to 1.0 microns; agglomerates in size up to approximately 7 microns. Uses LCD, plasma, EL, electrochromatic and OLED displays Touch panels Antistatic coatings EMI shielding Aircraft windshields and freezer case glass Photovoltaic solar cells Infrared reflecting coating Information provided by the manufacturer, Indium Corporation of America.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Indium-Corp-Fine-ITO-Indium-Tin-Oxide.php](http://www.lookpolymers.com/polymer_Indium-Corp-Fine-ITO-Indium-Tin-Oxide.php)

Physical Properties	Metric	English	Comments
Specific Gravity	7.20 g/cc	7.20 g/cc	
Bulk Density	0.500 - 1.20 g/cc	0.0181 - 0.0434 lb/in <sup>3</sup>	Apparent Density
Particle Size	0.40 - 0.80 $\mu\text{m}$	0.40 - 0.80 $\mu\text{m}$	d10
	1.1 - 3.0 $\mu\text{m}$	1.1 - 3.0 $\mu\text{m}$	d50
	4.3 - 11.5 $\mu\text{m}$	4.3 - 11.5 $\mu\text{m}$	d90
Specific Surface Area	18.5 m <sup>2</sup> /g	18.5 m <sup>2</sup> /g	BET

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

## Contact Songhan Plastic Technology Co.,Ltd.

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