

Indium Corp. Standard 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. Standard ITO: The primary particles are regularly shaped ranging in size from 0.4 to 1.0 microns; agglomerates in size up to approximately 31 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-Standard-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 ³	Apparent Density
Particle Size	2.7 - 8.0 Åµm	2.7 - 8.0 Åµm	d10
	13.2 - 24 Åµm	13.2 - 24 Åµm	d50
	32 - 44 Åµm	32 - 44 Åµm	d90
Specific Surface Area	2.4 m ² /g	2.4 m ² /g	BET

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

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