

## Colloidal Performance Materials

### NYACOL® DP9810

#### Modified Cesium Tungsten Oxide

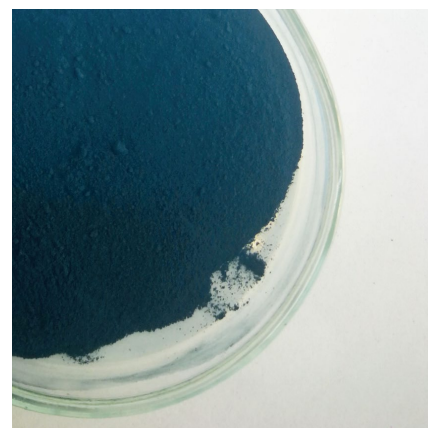
NYACOL DP9810 is being offered on a developmental basis. NYACOL DP9810 is a dark blue powder comprised of aggregates of spherical primary particles of modified tungsten oxide.

NYACOL DP9810 is a transparent IR absorber which enables high transmittance in the visible range with IR blocking that starts around 800 nm and absorbs in the higher ranges as well. The IR absorption starts significantly lower than ITO or ATO, enabling improved heat rejection.

Typical use level are 0.1% in PC, PC/ABS or PP compounds. Absorption will depend on the part thickness and concentration of the additive. Applications include IR blocking films, light diffusing panels, automotive windows and films. Solar heat gain coefficients in the range of 0.3 to 0.4 can be achieved with high transparency in many applications with the proper selection of the compounding process, additive level and forming technique.

#### TYPICAL PROPERTIES

	DP9810
Solids, %	100
Appearance:	Dark Blue
Form:	Powder
Surface area, m <sup>2</sup> /g (BET):	10 - 30
L-value:	40 - 55
LOI at 1000°C in air:	8.0 - 8.5 %



#### SAFETY

Users should observe precautions printed on the package label. A Safety Data Sheet (SDS) for these products will be supplied on request.

#### TO ORDER MATERIAL OR FOR INFORMATION

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