

OPTERA PL 95

TECHNICAL DATA SHEET
VERSION 06/2025



Optera PL 95 is a free-flowing white mineral filler engineered for opacity support, whiteness and formulation efficiency.

Opacity in a formulation is driven by a combination of light refraction, reflection and diffraction. OPTERA PL 95 is designed to support light scattering while improving pigment spacing and packing efficiency.

TECHNICAL DATA

KEY FEATURES

- For use as a partial opacifier / white pigment replacement in LLDPE, HDPE and PP applications.
- Improved whiteness and tinting appearance
- Reduced fading and yellowing tendency
- UV absorption support

PROPERTY	VALUE
Whiteness @ 460nm - photospectrometer	95 % Min
Physical appearance	Free-flowing white powder
Microscopic structure	Foliated to fibrous masses
Refractive Index n_α	1.538 – 1.550
Refractive Index n_β	1.589 – 1.594
Refractive Index n_γ	1.589 – 1.600
L* value	98.50 – 99.50
a* value	-1.50 to +1.50
b* value	-1.50 to +1.50
pH extract	8 - 10

Recommended starting point

Evaluate OPTERA PL 95 by replacing up to 30% of TiO_2 or by adding it as a functional filler wherever an opacifier / white pigment is used. Optimize dosage through trials because every formulation has a different pigment volume concentration, resin demand and processing profile.



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