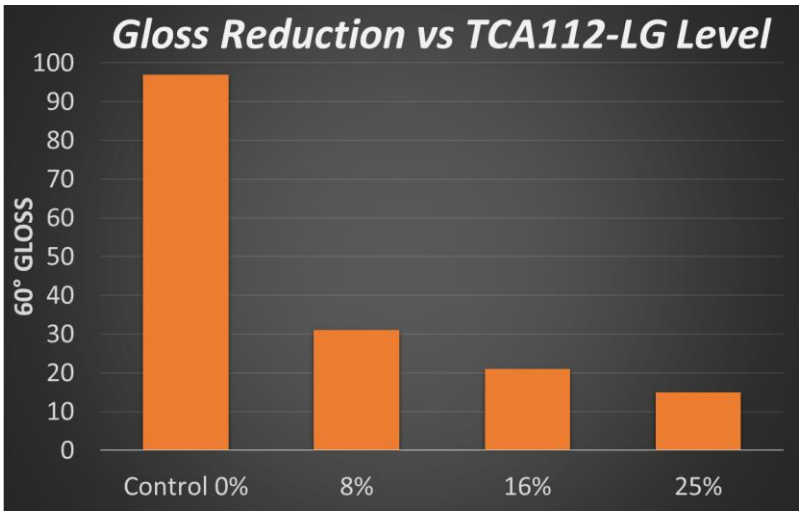
Insight™ TCA112-Low Gloss
PETG Masterbatch

Benefits of Insight™ TCA112-LG…

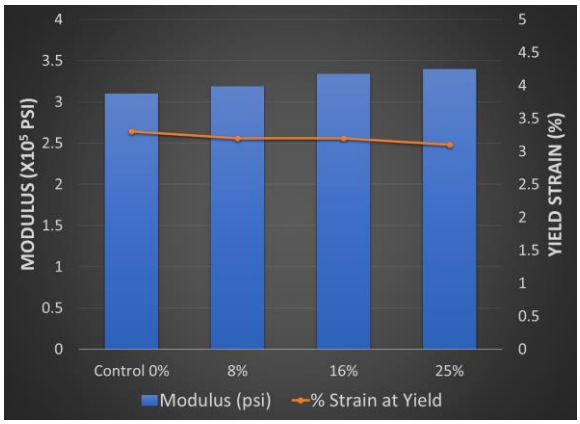
As additive manufacturing moves from small scale prototyping technology to consumer ready parts production, part ascetics will require refinement from design and material property choices. The appearance of layer lines can negatively affect consumer perception of part utility and fitness for use. Insight™ masterbatches for PETG FDM systems provides optical buffering to reduce the appearance of layer lines improving aesthetics and part acceptance. Insight™ TCA112-LG provides broad control of filament gloss levels to achieve overall desired part ascetics.

Insight™ TCA112-LG Enables:

- Filament gloss reduction
- Optical buffering of layer lines
- Minimal impact to mechanical properties



ASTM D523
*Control sample based on **0.75 IhV PETG** with 0.5% TiO_2.*



Unnotched Impact Strength	
Sample	**Result**
Control 0%	No Break
8%	No Break
16%	No Break
25%	753 J/m

ASTM D638 and D4812

Processing Guidelines:

- Dry for 4-6 h at 150 °F using a desiccant air dryer.
- Target melt temperature of 480-520 °F. Upper recommended use temperature of 520 °F and minimize time at elevated temperatures (<180 s).
- Typical use level is 10-30%.