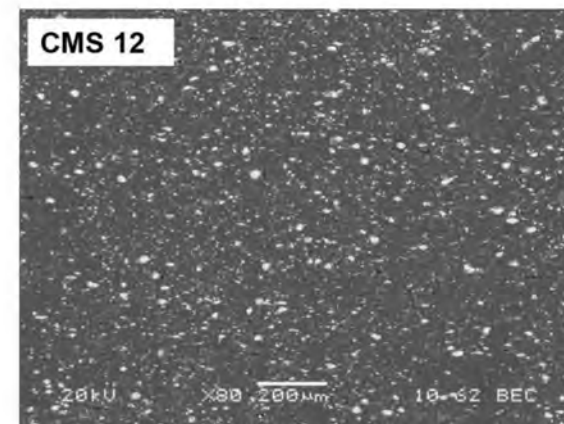
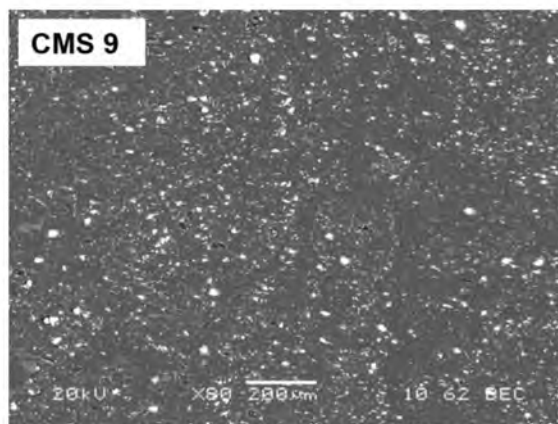
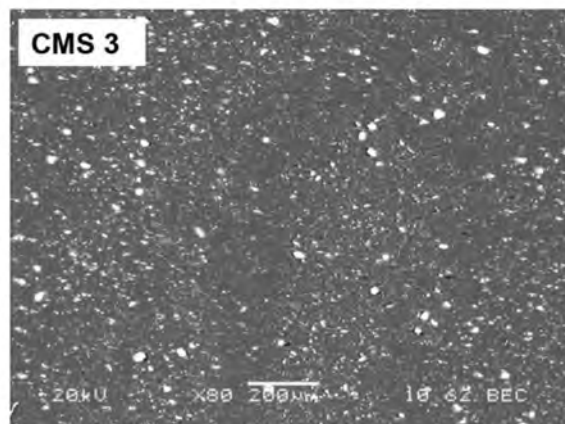


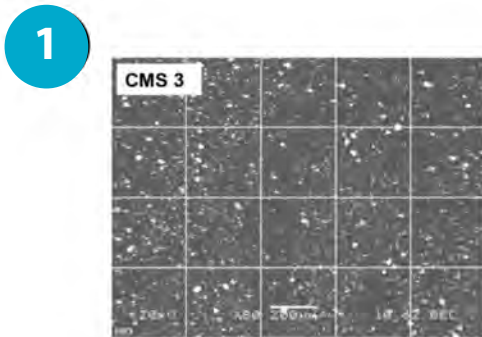


FUSIONITE IMPROVED DISPERSION OF OSHENITE® IN LLDPE PLASTIC

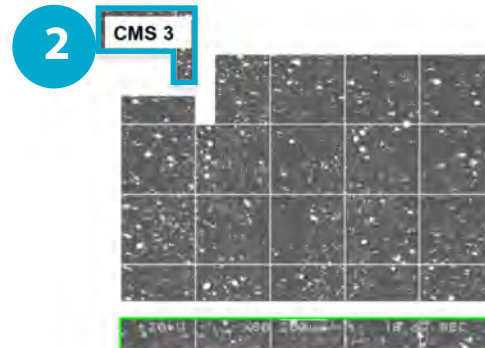


- **30% Oshenite® loading in each sample**
- **Improved dispersion, resulting in enhanced material properties**
- **Improved particle wetting also demonstrated**

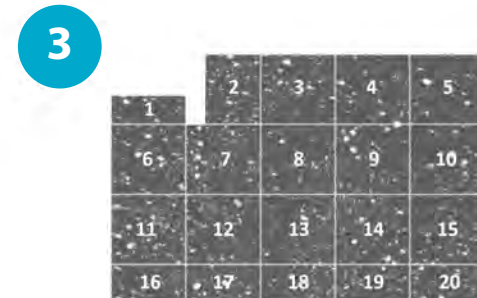
DISPERSION AND WETTING WERE EVALUATED THROUGH HISTOGRAM IMAGE ANALYSIS



Each SEM image was sectioned into 20 areas



Text overlays were cropped prior to analysis



Each rectangular area was numbered, 1 through 20



Each area was analyzed for white (Oshenite®), gray (resin), and black (wetting gaps)

- 5
- *Sample: CMS 3*
 - *Segment 2 of 20*
 - *Gray peak: 1,742*
 - *Black peak: 5*
 - *White peak: 123*

Data was recorded for each image segment

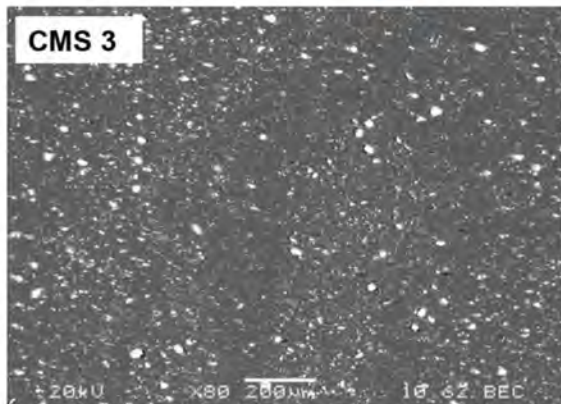
- 6
- Segment variation (standard deviation) on White Peak values is indicative of dispersion
 - Average and Total Black value (%) is indicative of wetting quality



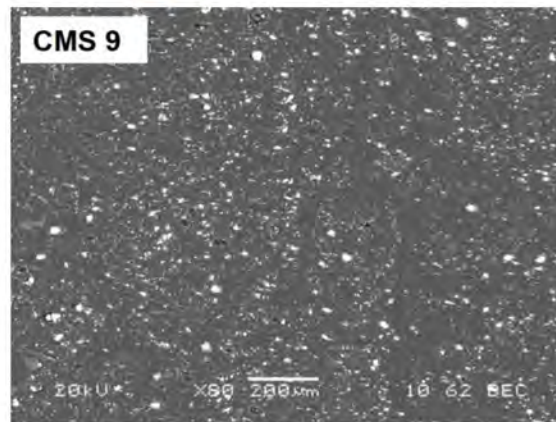
FUSIONITE IMPROVED DISPERSION, AS MEASURED BY SEGMENT VARIATION IN WHITE COLOR

Over 80% improvement in dispersion

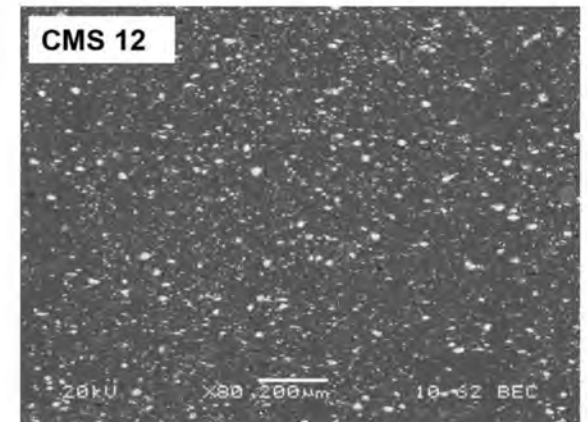
17% improvement in dispersion



No Fusionite



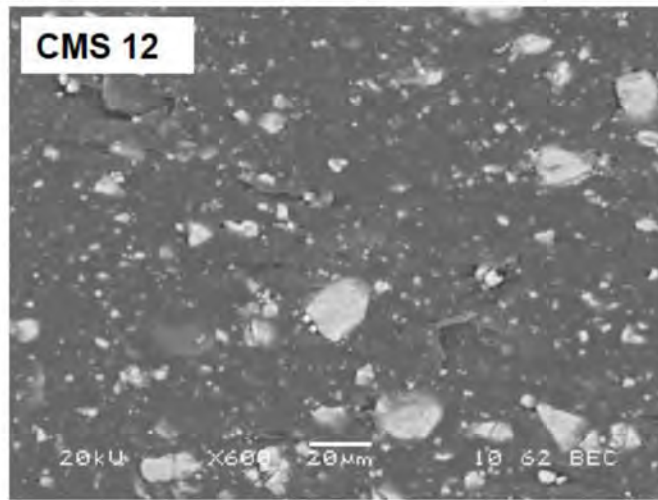
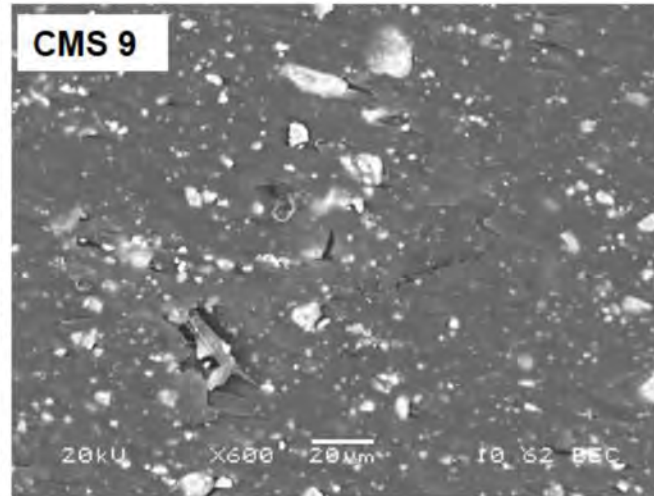
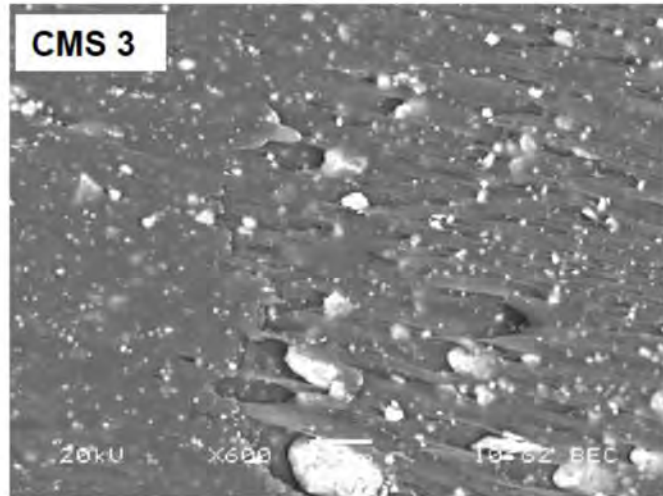
2000 ppm Fusionite



2500 ppm Fusionite



FUSIONITE DRAMATICALLY IMPROVED WETTING OF RESIN WITH THE OSHENITE®



- Significant void reduction
- Improved composite integration
- Higher tensile strength
- Greater rigidity
- Improved elongation at break