Exceed™ and Enable™ performance polymers can be used to deliver more sustainable films that reduce cost and enhance performance for a range of agricultural applications including polyethylene (PE) and ethylene vinyl acetate (EVA) greenhouse films, tunnel films and mulch films.

<table>
<thead>
<tr>
<th>Delivered attributes</th>
<th>Derived benefits &amp; potential value</th>
</tr>
</thead>
</table>
| Downgauging 20% to 30% | Raw material savings  
                           Lower film inventory  
                           Lower logistics costs  
                           Lower unit covering cost |
| Improved toughness  | Reduced film damage during extreme weather conditions  
                           Reduced film damage during film installation  
                           Potentially longer film life  
                           Reduce or eliminate LDPE  
                           Easy collection after use |
| Enhanced film optical properties | Faster temperature rise in greenhouse  
                                   Increase land productivity  
                                   Lengthen growing season |
| Excellent processability | Maintained extrudability and bubble stability  
                           Easy transition  
                           Reduced transition time and machine down-time  
                           Possible energy saving  
                           Worry-free, long-term production |
Pure Enable™ performance polymer-based greenhouse films
Provide significant improvements in MD tear, dart and puncture resistance, and a better total light transmission with less material.

According to the China Agricultural Film Association (CAFA) report, the weatherability of Exceed™ performance polymer-based film and Enable film is better when compared to film made with conventional LLDPE resin. Exceed and Enable are qualified to be used in agriculture film due to their superior optical, mechanical and aging properties.

Additional solutions
ExxonMobil Chemical has also developed solutions for other agricultural film applications including:
- EVA greenhouse film
- Coated PE greenhouse film
- Tunnel film
- Mulch film

We would be delighted to work with you to create an optimized formulation that meets your specific application needs.

Table 1: Product data for Enable formulated film and the reference film

<table>
<thead>
<tr>
<th>Layer ratio</th>
<th>Pure Enable solution (80μm)*</th>
<th>Enable / LDPE blend solution (80μm)</th>
<th>C4-LLDPE Ref (100μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 / 1 / 1</td>
<td>Enable 2010 LDPE (0.33MI, 0.922 density)</td>
<td>C4-LLDPE (1.0MI, 0.918 density) LDPE (0.33MI, 0.922 density)</td>
<td></td>
</tr>
<tr>
<td>1 / 1 / 1</td>
<td>Enable 2005 LDPE (0.33MI, 0.922 density)</td>
<td>C4-LLDPE (1.0MI, 0.918 density) LDPE (0.33MI, 0.922 density)</td>
<td></td>
</tr>
<tr>
<td>1 / 1 / 1</td>
<td>Enable 2010 LDPE (0.33MI, 0.922 density)</td>
<td>C4-LLDPE (1.0MI, 0.918 density) LDPE (0.33MI, 0.922 density)</td>
<td></td>
</tr>
</tbody>
</table>

* Suitable BUR for pure Enable solution is ≤ 2.0 and suitable thickness is ≤ 100 μm

Figure 2: Field aging tests show that weatherability is improved when using Exceed film and Enable film when compared with conventional LLDPE film

Data from tests performed by or on behalf of ExxonMobil

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