SURPASS® RMs245-U/UG Resin
Versatile performance for large tanks and a range of custom parts

Get an industry-leading combination of stiffness, toughness and ESCR in a wide range of applications with SURPASS RMs245-U/UG resin. This next-generation resin has achieved the best-in-class 1600 psi hydrostatic design basis (HDB) cell classification, increasing safety margins in tanks up to 20,000 gallons. In addition, outstanding melt flow and processing characteristics make RMs245-U/UG ideal for applications where light-weighting without compromising part stiffness is desired. Ultimately, molders can consolidate their resin portfolio and use RMs245 across a broad range of applications.

### Features
- Best-in-class 1600 psi hydrostatic design basis (HDB)
- UV 18+ design UV resistance
- 1000+ hour bent-strip environmental stress crack resistance (ESCR)
- NSF listed for standards 24, 51 and 61
- Exceptional whiteness

### Benefits
- Enables light-weighting of tanks up to 20,000 G & smaller molded parts
- Superior balance of stiffness, toughness and ESCR
- Higher productivity compared to 2.0MI tank grades
- Easy, consistent mold release properties

### Applications
- Agricultural tanks up to 20,000 gallons
- Smaller tanks and custom parts traditionally made from MDPE
- Floating docks
- Road barriers
- Other applications requiring exceptional stiffness/toughness, very high ESCR or very high UV resistance

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**Spotlight**

**Improved cycle time in large tank applications**

RMs245-U/UG enabled a 15% reduction in oven cook time and 6% increase in overall productivity compared to a competitive grade.

**Both samples:**
- 5000 gallon 1200 lb. weight molded at 550°F for 58 minutes

Actual side-wall cross-sectional photographs

<table>
<thead>
<tr>
<th>Sample</th>
<th>Description</th>
<th>Density</th>
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<tbody>
<tr>
<td>RMs245-UG</td>
<td>0.9477 g/cm³ molded density</td>
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<tr>
<td>Competitive large tank resin</td>
<td>0.9382 g/cm³ molded density</td>
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Light-weighting benefits of RMs245-U/UG
Reduce product weight by up to 10% over 3-5 MI competitive resins with no loss of side wall stiffness or cycle time speed

275 Gallon Bio Diesel Tanks - Side Wall Stiffness

Creep performance in large tank applications
RMs245-U/UG offers improved creep performance in addition to 10-20% weight reduction over tanks produced with a competitive hexene HDPE