Pro-fax 6301 Polypropylene, Homopolymer

Product Description
Pro-fax 6301 polypropylene homopolymer is available in spherical particle form. This resin is typically used for mixing with pigments and other additives to make polymer concentrates or masterbatches.

Pro-fax 6301 has very minimal stabilization, which allows wide design latitude for compounders. Additional stabilization is required to protect the resin during melt processing and throughout its useful life.

Please note that any additives compounded into this resin will require a re-assessment of its FDA status.

Regulatory Status
For regulatory compliance information, see Pro-fax 6301 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status
Commercial: Active

Availability
North America

Application
Colour Concentrates; Polymer Modifier; Wood Composites

Market
Compounding

Processing Method
Compounding

Attribute
Dispersible; Good Stiffness; High Filler Loading Capability

Typical Properties

<table>
<thead>
<tr>
<th>Physical</th>
<th>Nominal Value</th>
<th>English Units</th>
<th>Nominal Value</th>
<th>SI Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>12</td>
<td>g/10 min</td>
<td>12</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.90</td>
<td>g/cm³</td>
<td>0.90</td>
<td>g/cm³</td>
<td>ASTM D792</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Nominal Value</th>
<th>English Units</th>
<th>Nominal Value</th>
<th>SI Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Modulus</td>
<td>210000</td>
<td>psi</td>
<td>1450</td>
<td>MPa</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>(0.05 in/min, 1% Secant, Procedure A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ASTM D790</td>
</tr>
<tr>
<td>(1.3 mm/min, 1% Secant, Procedure A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Tensile Strength at Yield</td>
<td>4900</td>
<td>psi</td>
<td>34</td>
<td>MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>(2 in/min)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ASTM D638</td>
</tr>
<tr>
<td>(50 mm/min)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Tensile Elongation at Yield</td>
<td>11</td>
<td>%</td>
<td>11</td>
<td>%</td>
<td>ASTM D638</td>
</tr>
</tbody>
</table>

Impact
Notched Izod Impact Strength
(73 °F, Method A) | 0.6 | ft-lb/in | ASTM D256 |
(23 °C, Method A) | 32 | J/m | ASTM D256 |

Thermal
Deflection Temperature Under Load
(66 psi, Unannealed) | 200 | °F | ASTM D648 |
(0.45 MPa, Unannealed) | 93 | °C | ASTM D648 |
Notes
These are typical property values not to be construed as specification limits.

Processing Techniques
Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information
For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer
Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks
The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.