POLYBOND® 3200
Polymer Modifier

POLYBOND® 3200 is a maleic anhydride modified polypropylene homopolymer.

CAS Number 9003-07-0

Typical Physical Properties of POLYBOND® 3200

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Test Based On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Off-white Pellet</td>
<td>Visual</td>
</tr>
<tr>
<td>Melt Flow Rate @ 190°C, 2.16Kg</td>
<td>115 g/10 min</td>
<td>ASTM D-1238</td>
</tr>
<tr>
<td>Maleic Anhydride Content</td>
<td>High*</td>
<td>ASTM D-6047</td>
</tr>
<tr>
<td>Density @ 23°C</td>
<td>0.91 g/cm³</td>
<td>ASTM D-792</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>0.6 g/ cm³</td>
<td>ASTM D-1895B</td>
</tr>
<tr>
<td>Melting Point</td>
<td>157°C</td>
<td>DSC</td>
</tr>
</tbody>
</table>

*High = Maleic Anhydride Content typically in the range of 0.8 to 1.2%.

Applications
- High efficiency coupling agent for glass-filled polypropylene providing improved physical properties including strength
- Higher coupling efficiency vs. lower functionality products reducing raw material costs
- Coupling agent for cellulose fiber-filled polypropylene leading to reduced water uptake and higher flexural/tensile strengths
- Compatibilizer for polypropylene/polyamide blends giving enhanced hydrolytic stability and strength properties
- Coupling agent for mineral-filled polypropylene offering improved strength and impact properties
- Coupling agent and process aid for halogen-free, flame retardant (HFFR) wire & cable compounds giving improved dispersion of flame retardant along with improved mechanical properties
- Tie-layer component giving improved compatibility between multilayer polar and non-polar materials

Food Contact
POLYBOND® 3200 is approved for use under a several sections of the USA FDA 21CFR regulations as well as the European Food Regulations. Check with the Product Safety and Regulatory Affairs Department of Addvant™ for current status.

Regulatory Status
The components of POLYBOND® 3200 are listed on USA TSCA inventory. For information on other inventory listings, see Section 15 (Regulatory Information) of the MSDS for POLYBOND® 3200.

Storage & Handling Precautions
Keep POLYBOND® 3200 dry prior to processing. Loss of anhydride functionality may occur due to conversion to acid groups by reaction with atmospheric moisture. Tie liners of open boxes when not in use to prevent exposure to moisture. If exposure occurs, POLYBOND® 3200 can be dried in a hopper dryer or oven for three hours at 105°C to remove moisture. A slight pungent odor is normal during processing of POLYBOND® 3200. Purge equipment with polypropylene before and after running POLYBOND® 3200.

For additional handling and toxicological information consult the Addvant™ Material Safety Data Sheet