Geon™ VBX Series Vinyl Powder Compounds

Vinyl-Based Powder Compound Solutions for Automotive Interiors

**Product Description**

Geon™ VBX Series Vinyl Powder Compounds are formulated to automotive OEM requirements for interior components providing a wide range of physical properties and performance characteristics with superior haptics for items such as door panels, instrument panels and instrument panels with seamless, deployable airbags.

**Key Advantages**

- **Multiple OEM approvals** for ease of product acceptance and qualification
- **Low VOC** for improved air quality and fog reduction
- **Low temperature performance** for crack resistance and seamless airbag deployment
- **100% molded in color** to eliminate need for painting
- **Paintable materials** for maximizing manufacturing efficiencies
- **Grain & feature detail** for superior aesthetics
- **UV stability** for weathering and color retention performance
- **Chemical resistance** for extended product life
- **Design flexibility** for improved product properties, detail and manufacturability
- **Custom formulation** capability for optimal product performance

**Other Value-added Services**

- Application expertise to select the right product for the process
- Rapid customer response to minimize inventory and to resolve technical problems
- Access to testing and other customer-specific validation support
- Supply chain risk management to ensure long-term raw material viability and supply
- Product stewardship and regulatory management
Markets and End-Use Applications

PolyOne’s Geon™ VBX Series Vinyl Powder Compounds portfolio provides automotive OEMs and processors with a broad array of products ideally suited to automotive interior applications in the global automotive market.

- Door panels
- Instrument panels
- Instrument panels with deployable airbags

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Tear</th>
<th>Elongation</th>
<th>Tensile</th>
<th>Hardness</th>
<th>Fogging</th>
<th>Specific Gravity</th>
<th>Glass Transition Temperature</th>
<th>Xenon Arc Weathering</th>
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</thead>
<tbody>
<tr>
<td>Test Units</td>
<td>ASTM D638</td>
<td>ASTM D638</td>
<td>ASTM D2240</td>
<td>Shore A</td>
<td>SAE J1756</td>
<td>ASTM D792</td>
<td>DMA Tg(E*)</td>
<td>SAE J1885</td>
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<tr>
<td><strong>Products</strong></td>
<td><strong>Applications</strong></td>
<td></td>
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<td></td>
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<tr>
<td>Geon VBX 3400</td>
<td>42.4</td>
<td>329</td>
<td>12.0</td>
<td>75</td>
<td>92</td>
<td>1.17</td>
<td>-22°C</td>
<td>DE* ≤ 2 (1240 kJ/m²)</td>
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<tr>
<td>Geon VBX 3500</td>
<td>42.8</td>
<td>306</td>
<td>12.6</td>
<td>75</td>
<td>90</td>
<td>1.17</td>
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<td>DE* ≤ 2 (1240 kJ/m²)</td>
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<td>315</td>
<td>12.7</td>
<td>76</td>
<td>83</td>
<td>1.17</td>
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<td>G.S. = 4-5 (1504 kJ/m²)</td>
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<td>375</td>
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<td>1.17</td>
<td>-49°C</td>
<td>Instrument Panel with Deployable Airbag</td>
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</tbody>
</table>

Product choices often vary by region due to differences in regulatory and agency requirements, availability and other key factors. Please contact your nearest sales office for assistance in choosing the right solution for your locale.

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