

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

Test	Tear	Elongation	Tensile	Hardness	Fogging	Specific Gravity	Glass Transition Temperature	Xenon Arc Weathering	
Test Method	ASTM	ASTM D638	ASTM D638	ASTM D2240	SAE J1756	ASTM D792	DMA	SAE J1885	
Units	kN/m	%	MPa	Shore A			Tg(E°)		
Products								Applications	
Geon VBX 3400	42.4	329	12.0	75	92	1.17	-22°C	DE* < 2 (1240 kJ/m ²)	Door Panel
Geon VBX 3500	42.8	306	12.6	75	90	1.17	-28°C	DE* < 2 (1240 kJ/m ²)	Instrument Panel
Geon VBX 3550	44.1	315	12.7	76	83	1.17	-38°C	G.S. = 4-5 (1504 kJ/m ²)	Door Panel / Instrument Panel
Geon VBX 3600	45.5	348	12.9	70	91	1.19	-33°C		Instrument Panel with Deployable Airbag
Geon VBX 3650	43.3	375	12.7	70		1.17	-49°C		Instrument Panel with Deployable Airbag

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.

CONTACT INFORMATION

PolyOne Americas

33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000

PolyOne Asia

Guoshoujing Road No. 88
Z.J Hi-Tech Park, Pudong
Shanghai, 201203, China
+86 (0) 21 5080 1188

PolyOne Europe

Rue Melville Wilson 2
5330 Assesse, Belgium
+32 (0) 83 660 211



Beyond Polymers.
Better Business Solutions.™

www.polyone.com

Copyright © 2011, PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.