

Geon[™] Vinyl Rigid Extrusion L0313 Rigid Polyvinyl Chloride

Key Characteristics

| General | | | |
|-----------------------|---|--|---------------|
| Material Status | Commercial: Active | | |
| Regional Availability | Africa & Middle East Asia Pacific | EuropeLatin America | North America |
| Uses | Handles | Profiles | |
| Appearance | Clear/Transparent | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |

Technical Properties¹

| | | - | |
|--|-------------------------|--------------------|-------------|
| hysical | Typical Value (English) | Typical Value (SI) | Test Method |
| Specific Gravity | 1.35 | 1.35 | ASTM D792 |
| PVC Cell Classification | 10341 | 10341 | ASTM D1784 |
| lechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Modulus ² | 377000 psi | 2600 MPa | ASTM D638 |
| Tensile Strength ² (Yield) | 6780 psi | 46.7 MPa | ASTM D638 |
| Flexural Modulus | 430000 psi | 2960 MPa | ASTM D790 |
| Flexural Strength | 13000 psi | 89.7 MPa | ASTM D790 |
| npact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact - Flow | | | ASTM D256A |
| 73°F (23°C), 0.125 in (3.18 mm), Compression Molded | 2.7 ft·lb/in | 140 J/m | |
| Drop Impact Resistance | | | ASTM D4226 |
| 73°F (23°C) ³ | 0.570 in lb/mil | 25.4 J/cm | |
| 73°F (23°C) ⁴ | 0.540 in · lb/mil | 24.0 J/cm | |
| ardness | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore D, 15 sec) | 84 | 84 | ASTM D2240 |
| hermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm) | 106 °F | 41.1 °C | |
| CLTE - Flow | 4.0E-5 in/in/°F | 7.2E-5 cm/cm/°C | ASTM D696 |

Note: The Cell Classification was determined using the notched Izod test with injection molded samples.

Processing Information

| njection | Typical Value (English) | Typical Value (SI) | |
|--|-------------------------|--------------------|--|
| Processing (Melt) Temp | 360 to 380 °F | 182 to 193 °C | |
| Notes | | | |
| ¹ Typical values are not to be constr | ued as specifications. | | |
| ² Type I, 0.20 in/min (5.1 mm/min) | | | |
| ³ Procedure A, C.125 Dart | | | |
| ⁴ Procedure B. C.125 Dart | | | |

Copyright ©, 2015 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 data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

Geon™ Vinyl Rigid Extrusion L0313

CONTACT INFORMATION

Americas United States - Avon Lake +1 440 930 1000 United States - McHenry +1 815 385 8500

Asia China - Guangzhou +86 20 8732 7260

China - Shenzhen +86 755 2969 2888 China - Suzhou +86 512 6823 24 38 China - Suzhou +86 512 6265 2600 Hong Kong -+852 2690 5332 Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849 Europe Germany - Gaggenau +49 7225 6802 0 Spain - Barbastro (Huesca) +34 974 310 314

Beyond Polymers. Better Business Solutions.[™] www.polyone.com

PolyOne Americas

PolyOne Asia

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

+1 866 POLYONE

No. 88 Guoshoujing Road Z.J Hi-tech Park, Pudong Shanghai, 201203, China +86 21 5080 1188 PolyOne Europe 6 Giällewee +352 269 050 35

Copyright ©, 2015 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 LIMPLED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patiented invention without permission of the patent owner.