



Geon™ Vinyl Dry Blend E1354

Rigid Polyvinyl Chloride

Key Characteristics

| General | | | |
|-----------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Uses | • Piping | | |
| Agency Ratings | • CSA Unspecified Rating • NSF 14 | • NSF 61 • NSF Type I | |
| Forms | • Powder | | |
| Processing Method | • Extrusion | | |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|-------------------------------------------------------------------------------------------|-------------------------|--------------------|-------------|
| Specific Gravity | 1.40 | 1.40 | ASTM D792 |
| PVC Cell Classification | 12454 | 12454 | ASTM D1784 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Modulus ² | 409000 psi | 2820 MPa | ASTM D638 |
| Tensile Strength ² (Yield) | 7050 psi | 48.6 MPa | ASTM D638 |
| Flexural Modulus | 468000 psi | 3230 MPa | ASTM D790 |
| Flexural Strength | 13800 psi | 95.1 MPa | ASTM D790 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Compression Molded | 0.70 ft·lb/in | 37 J/m | ASTM D256A |
| Drop Impact Resistance 73°F (23°C) ³ | 1.20 in·lb/mil | 53.4 J/cm | ASTM D4226 |
| 73°F (23°C) ⁴ | 3.80 in·lb/mil | 169 J/cm | |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm) | 167 °F | 75.0 °C | ASTM D648 |
| CLTE - Flow | 3.2E-5 in/in/°F | 5.8E-5 cm/cm/°C | ASTM D696 |

Notes

¹ Typical values are not to be construed 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

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