

Westlake PVC HHW-191(6191)

Westlake Chemical Corporation - Rigid Polyvinyl Chloride

Friday, September 20, 2019

General Information

Product Description

AXIALL's Georgia Gulf HHW-191 (6191) is a special purpose profile extrusion alloy designed for applications requiring the following properties:

- Weatherable
- Impact Strength / Toughness
- Heat Resistance and Thermal Stability
- Chemical Resistance

General

| | | | |
|-------------------|--------------------------|--------------------------|------------------------|
| Material Status | • Commercial: Active | | |
| Availability | • North America | | |
| Features | • Chemical Resistant | • Good Thermal Stability | • High Heat Resistance |
| | • Good Impact Resistance | • Good Toughness | • Weather Resistant |
| Processing Method | • Extrusion | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-------------|
| Density / Specific Gravity | 1.24 | g/cm ³ | ASTM D792 |
| PVC Cell Classification | 15335 | | ASTM D1784 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2410 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 46.2 | MPa | ASTM D638 |
| Flexural Modulus | 2410 | MPa | ASTM D790 |
| Flexural Strength | 75.8 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 530 | J/m | ASTM D256 |
| Tensile Impact Strength | 94.6 | kJ/m ² | ASTM D1822 |
| Drop Impact Resistance | 1600 | J/cm | ASTM D4226 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 110 | | ASTM D785 |
| Durometer Hardness (Shore D) | 80 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load 1.8 MPa, Unannealed | 88.3 | °C | ASTM D648 |
| CLTE - Flow | 7.0E-5 | cm/cm/°C | ASTM D696 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.5 mm) | V-1 | | UL 94 |

Processing Information

| Extrusion | Nominal Value | Unit |
|-----------------------|---------------|------|
| Drying Temperature | 77 | °C |
| Drying Time | 2.0 to 6.0 | hr |
| Cylinder Zone 1 Temp. | 149 | °C |
| Cylinder Zone 2 Temp. | 154 | °C |
| Cylinder Zone 3 Temp. | 160 | °C |

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| Extrusion | Nominal Value | Unit |
|-----------------------|---------------|------|
| Cylinder Zone 4 Temp. | 166 | °C |
| Cylinder Zone 5 Temp. | 171 | °C |
| Die Temperature | 177 | °C |

Extrusion Notes

Gate Temperature: 350°F

Notes

¹ Typical properties: these are not to be construed as specifications.