

# NORYL PPX™ Resin PPX Americas

聚苯醚 + PS + PP  
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## Technical Data

### Product Description

High modulus/impact/heat PPE+PP

### General

|                   |        |         |         |
|-------------------|--------|---------|---------|
| Features          | • 高刚性  | • 高抗撞击性 | • 耐热性，高 |
| Processing Method | • 注射成型 |         |         |

### Physical

额定值 单位制 测试方法

|                                            |                |                 |
|--------------------------------------------|----------------|-----------------|
| Density / Specific Gravity                 | 0.988 g/cm³    | ASTM D792       |
| Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)   | 14 g/10 min    | ASTM D1238      |
| Melt Volume-Flow Rate (MVR) (260°C/5.0 kg) | 12.0 cm³/10min | ISO 1133        |
| Molding Shrinkage                          |                | Internal Method |
| 流动：3.20 mm                                 | 0.60 到 0.70 %  |                 |
| 横向流动：3.20 mm                               | 0.60 到 0.80 %  |                 |

### Mechanical

额定值 单位制 测试方法

|                                                   |          |              |
|---------------------------------------------------|----------|--------------|
| Tensile Modulus                                   |          |              |
| -- <sup>3</sup>                                   | 1240 MPa | ASTM D638    |
| --                                                | 1370 MPa | ISO 527-2/1  |
| Tensile Strength                                  |          |              |
| 屈服 <sup>4</sup>                                   | 35.0 MPa | ASTM D638    |
| 屈服                                                | 35.0 MPa | ISO 527-2/50 |
| 断裂 <sup>4</sup>                                   | 34.0 MPa | ASTM D638    |
| Tensile Elongation                                |          |              |
| 屈服 <sup>4</sup>                                   | 8.0 %    | ASTM D638    |
| 断裂 <sup>4</sup>                                   | 130 %    | ASTM D638    |
| 断裂                                                | 75 %     | ISO 527-2/50 |
| Flexural Modulus <sup>5</sup> (50.0 mm Span)      | 1370 MPa | ASTM D790    |
| Flexural Strength <sup>5</sup> (屈服, 50.0 mm Span) | 51.0 MPa | ASTM D790    |

### Impact

额定值 单位制 测试方法

|                            |         |            |
|----------------------------|---------|------------|
| Notched Izod Impact (23°C) | 530 J/m | ASTM D256  |
| Instrumented Dart Impact   |         | ASTM D3763 |
| -30°C, Total Energy        | 30.0 J  |            |
| 23°C, Total Energy         | 37.0 J  |            |

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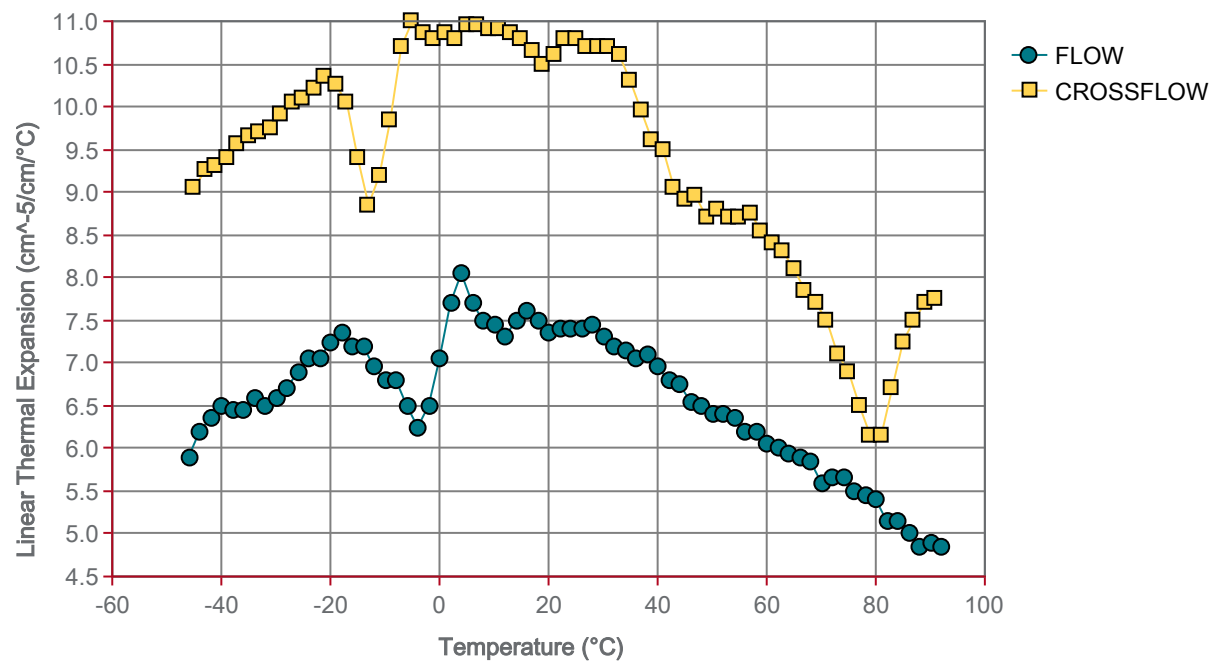
| Thermal                           | 额定值 单位制           | 测试方法                    |
|-----------------------------------|-------------------|-------------------------|
| Deflection Temperature Under Load |                   | ASTM D648               |
| 0.45 MPa, 未退火, 3.20 mm            | 112 °C            |                         |
| 1.8 MPa, 未退火, 3.20 mm             | 85.0 °C           |                         |
| Vicat Softening Temperature       |                   |                         |
| --                                | 86.0 °C           | ASTM D1525 <sup>6</sup> |
| --                                | 131 °C            | ISO 306/A50             |
| CLTE                              |                   | ASTM E831               |
| 流动 : -40 到 40°C                   | 1.6E-4 cm/cm/°C   |                         |
| 横向 : -40 到 40°C                   | 9.7E-5 cm/cm/°C   |                         |
| Injection                         | 额定值 单位制           |                         |
| Drying Temperature                | 60 到 65 °C        |                         |
| Drying Time                       | 2.0 到 4.0 hr      |                         |
| Suggested Max Moisture            | 0.020 %           |                         |
| Suggested Shot Size               | 30 到 70 %         |                         |
| Rear Temperature                  | 225 到 275 °C      |                         |
| Middle Temperature                | 240 到 280 °C      |                         |
| Front Temperature                 | 250 到 290 °C      |                         |
| Nozzle Temperature                | 260 到 290 °C      |                         |
| Processing (Melt) Temp            | 260 到 290 °C      |                         |
| Mold Temperature                  | 30 到 50 °C        |                         |
| Back Pressure                     | 0.300 到 0.700 MPa |                         |
| Screw Speed                       | 20 到 100 rpm      |                         |
| Vent Depth                        | 0.038 到 0.051 mm  |                         |
| Injection Notes                   |                   |                         |
| Injection Molding Parameters      |                   |                         |
| • Drying Time (Cumulative): 8 hrs |                   |                         |

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Coefficient of Thermal Expansion vs. Temperature (ASTM E831)

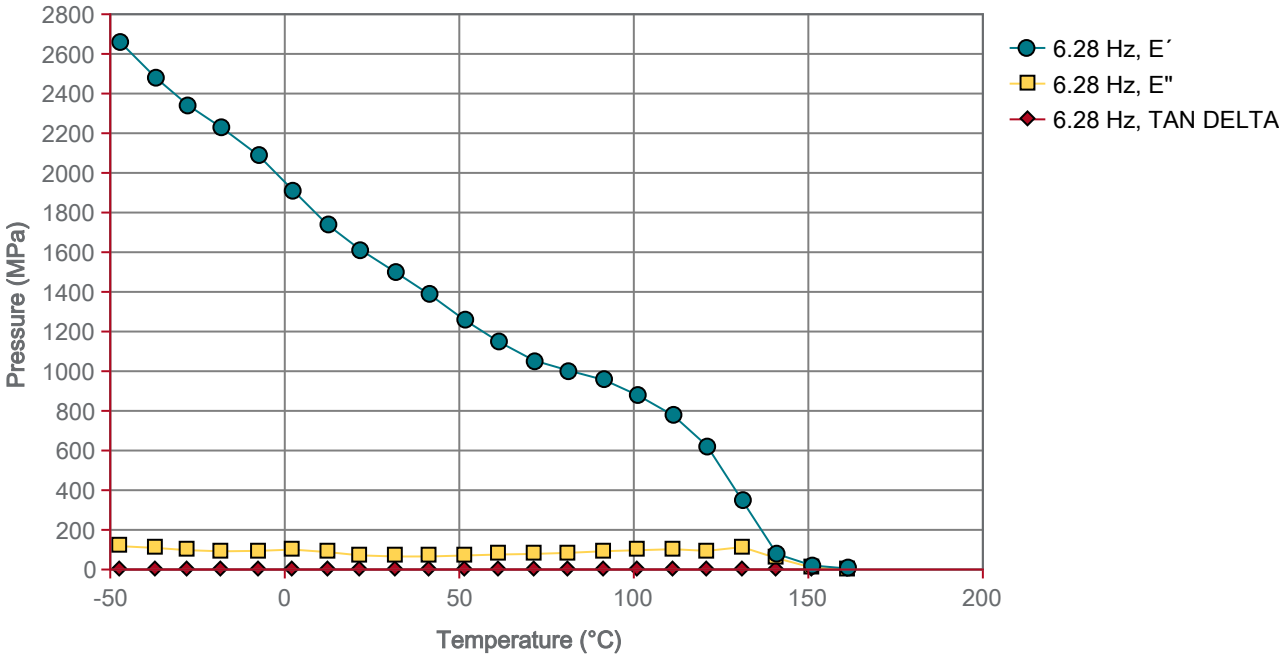


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Flexural DMA (ASTM D4065)

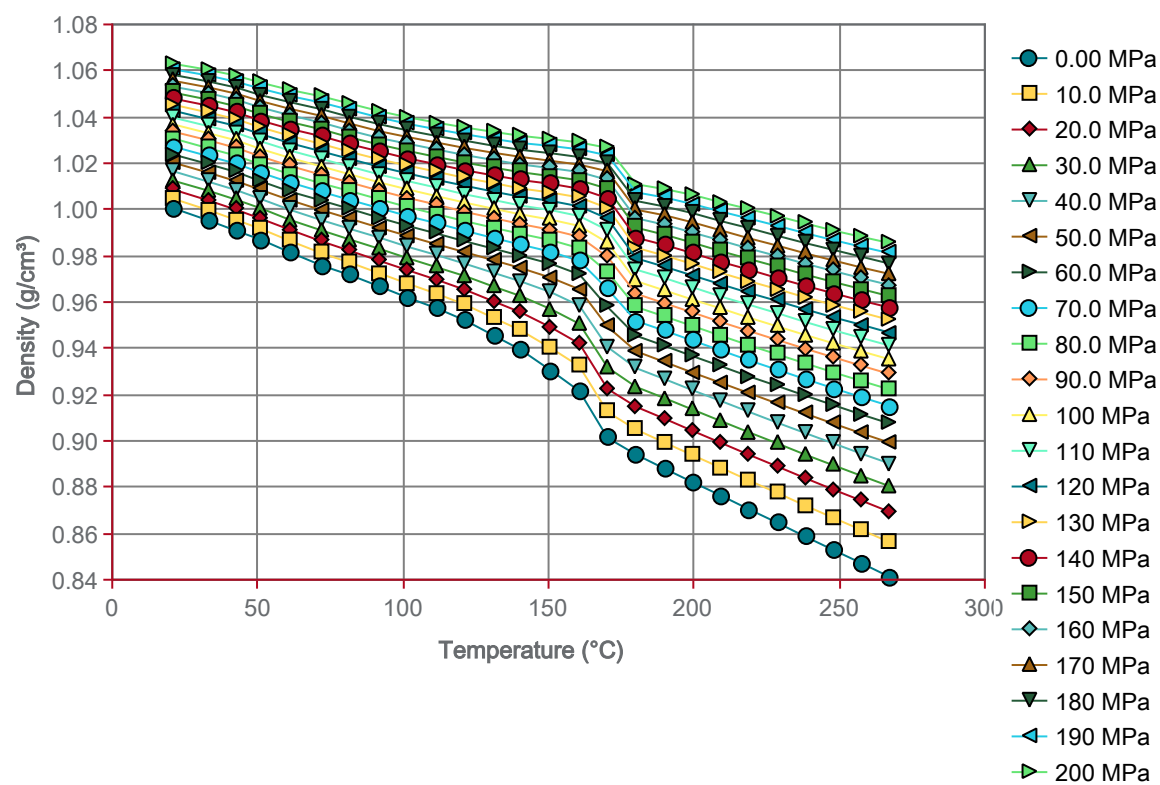


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Pressure-Volume-Temperature (PVT - Zoller Method)

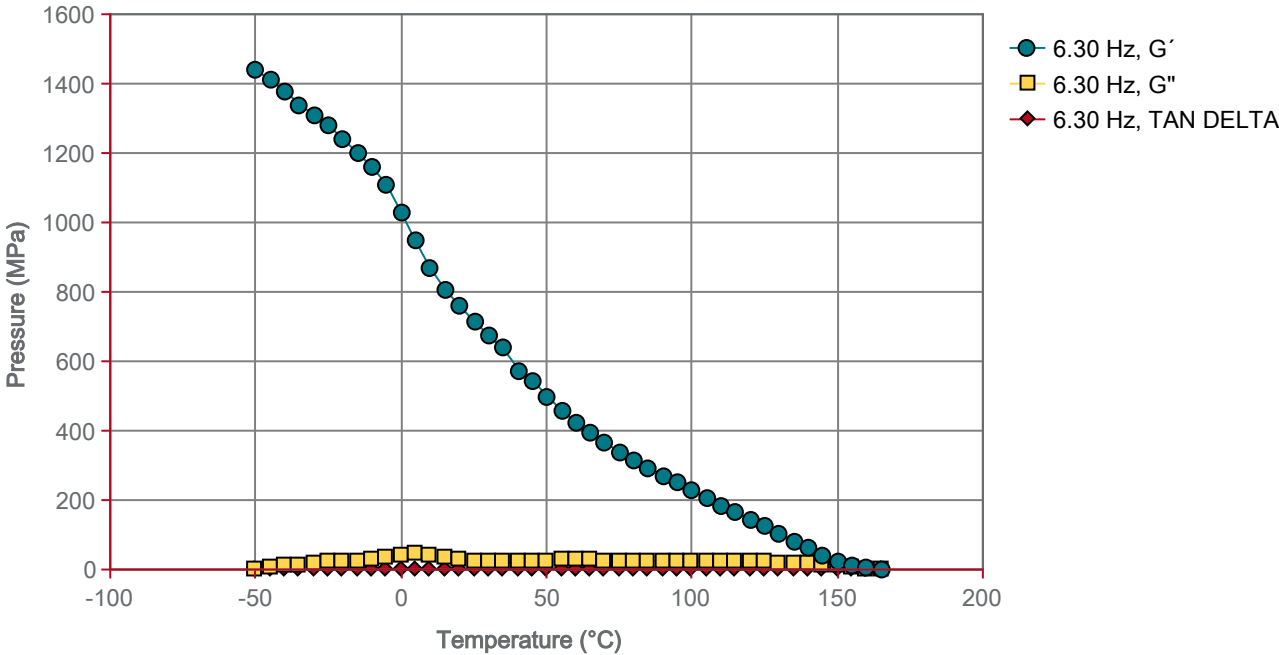


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Shear DMA (ASTM D4065)

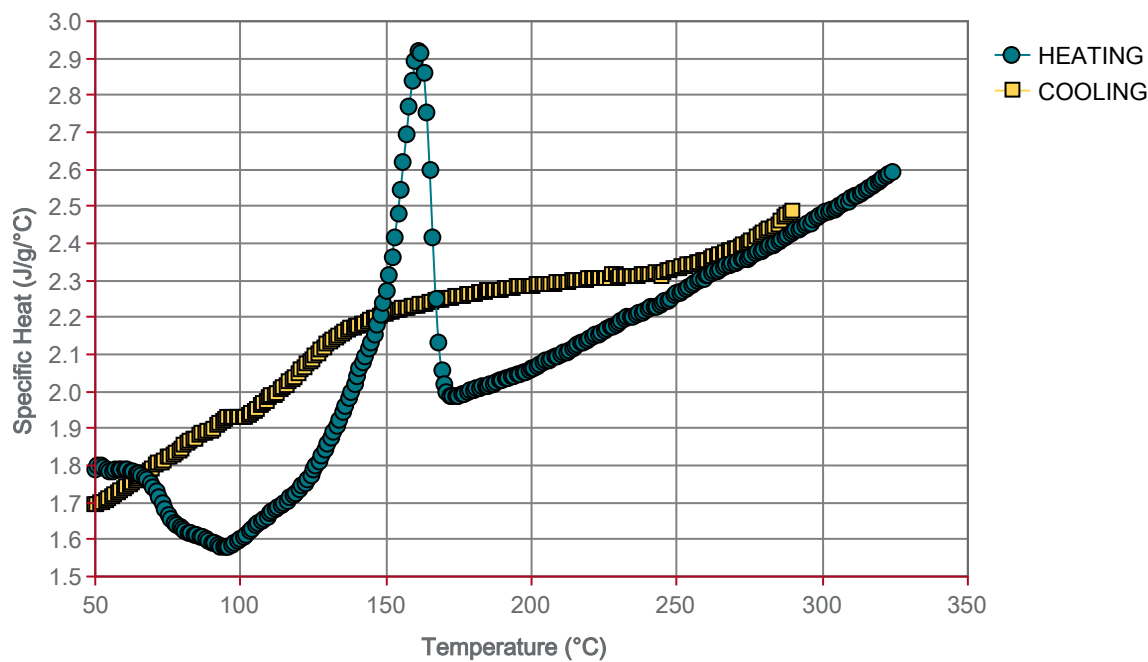


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Specific Heat vs. Temperature (ASTM D3417)

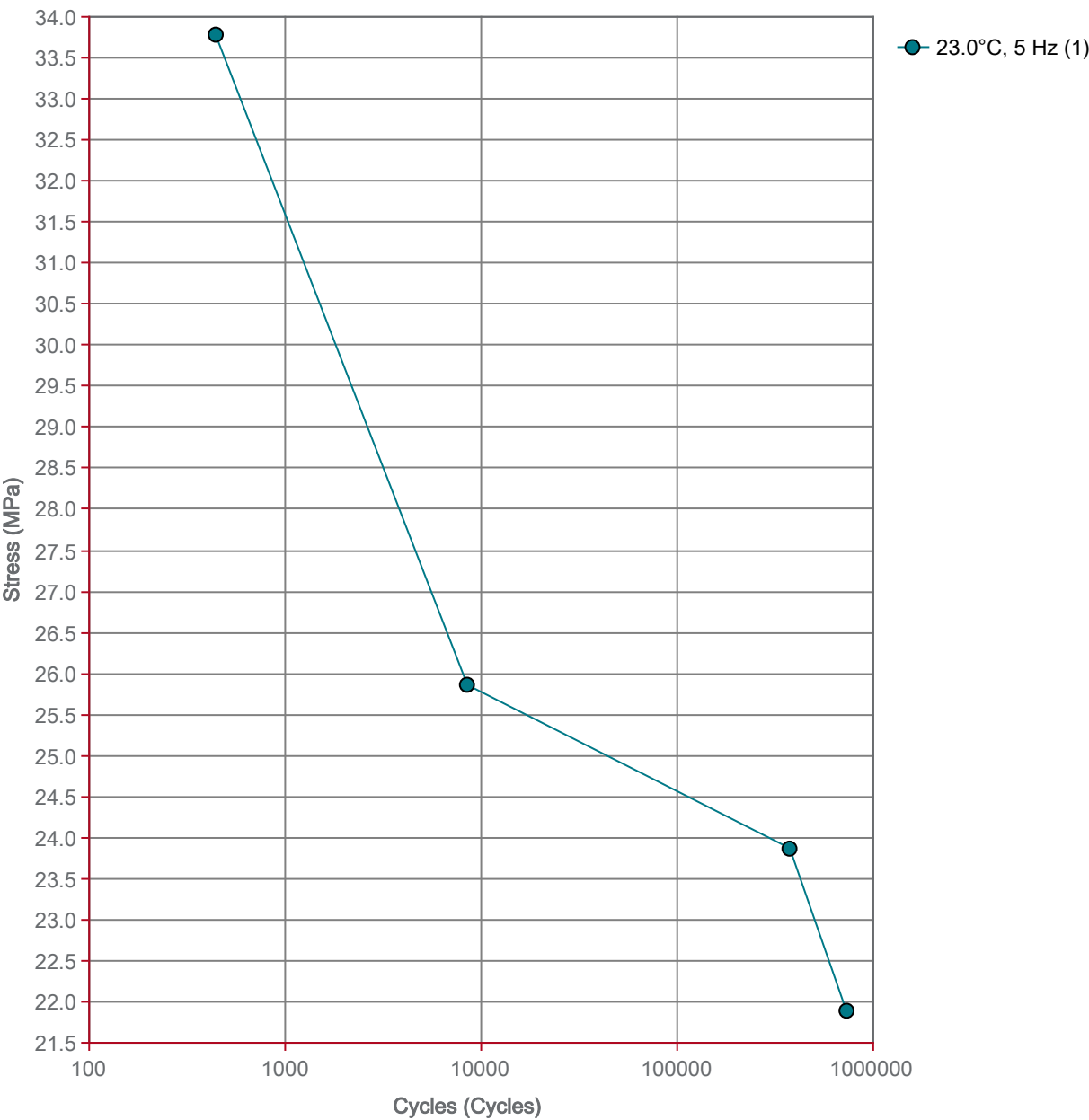


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Tensile Fatigue



数据备注  
(1) - Series 1

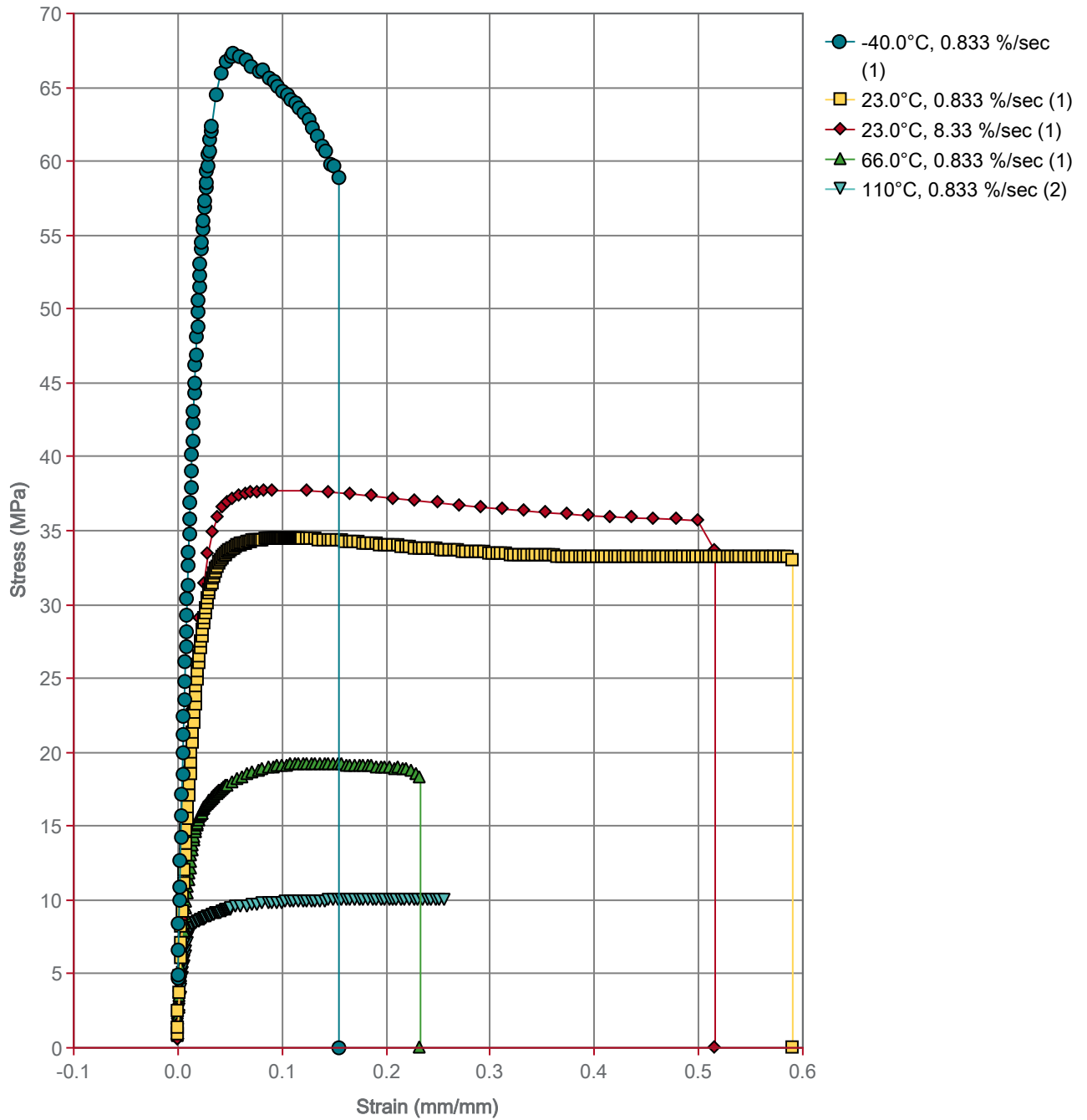


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Tensile Stress vs. Strain (ASTM D638)



数据备注

(1) - BREAK

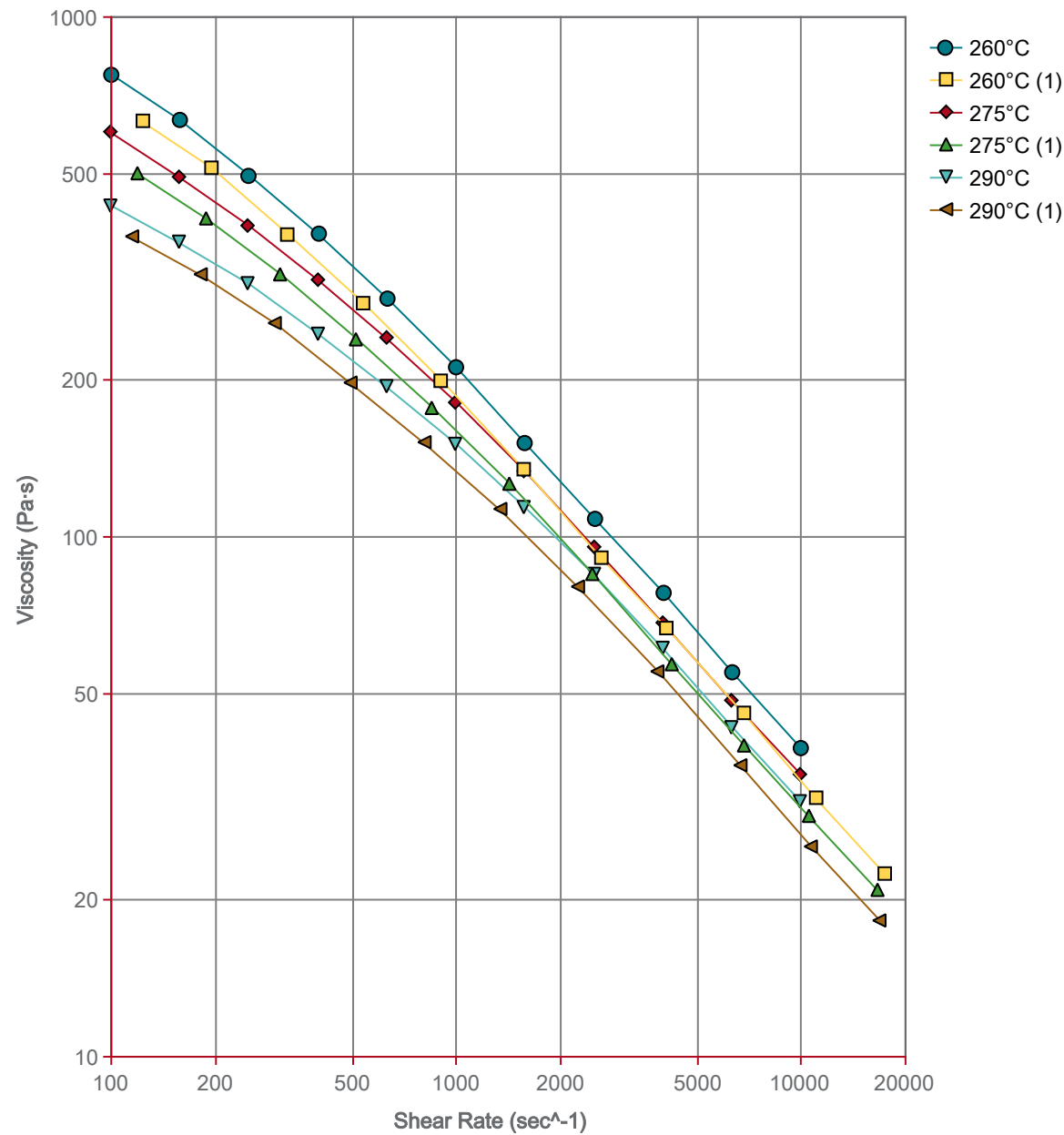
(2) - STOPPED

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Viscosity vs. Shear Rate (ASTM D3835)



数据备注

(1) - Rab. Corrected Data