

## Technical Information



# PULSE™ EXT 200 EU PC/ABS Engineering Resin

## Overview

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PULSE™ EXT 200 EU engineering resin is especially designed for automotive interior applications, which are chrome plated. It is a High Heat/High Impact PC/ABS resin for injection moulded automotive plating and painting trim applications.

### Benefits

- Excellent processability
- High heat resistance
- Excellent ductility at 23°C and at low temperatures

### Applications

- Chrome plated Automotive interior and exterior injection moulded parts and trims

| Physical                                 | Nominal Value (English)   | Nominal Value (SI)        | Test Method  |
|------------------------------------------|---------------------------|---------------------------|--------------|
| Density                                  | 1.10 g/cm³                | 1.10 g/cm³                | ISO 1183     |
| Apparent (Bulk) Density                  | 0.64 g/cm³                | 0.64 g/cm³                | ISO 60       |
| Melt Mass-Flow Rate (MFR) (260°C/5.0 kg) | 13 g/10 min               | 13 g/10 min               | ISO 1133     |
| Spiral Flow <sup>1</sup>                 | 20.5 in                   | 52.0 cm                   |              |
| Molding Shrinkage                        | 4.0E-3 to 7.0E-3 in/in    | 0.40 to 0.70 %            | ISO 294-4    |
| VOC Content                              | 35.0 µg/g                 | 35.0 µg/g                 | VDA 277      |
| Mechanical                               | Nominal Value (English)   | Nominal Value (SI)        | Test Method  |
| Tensile Modulus                          | 305000 psi                | 2100 MPa                  | ISO 527-1/1  |
| Tensile Stress (Yield)                   | 6380 psi                  | 44.0 MPa                  | ISO 527-2/50 |
| Tensile Strain (Break)                   | 100 %                     | 100 %                     | ISO 527-2/50 |
| Flexural Modulus <sup>2</sup>            | 305000 psi                | 2100 MPa                  | ISO 178      |
| Flexural Stress <sup>2</sup>             | 10400 psi                 | 72.0 MPa                  | ISO 178      |
| Impact                                   | Nominal Value (English)   | Nominal Value (SI)        | Test Method  |
| Charpy Notched Impact Strength           |                           |                           | ISO 179/1eA  |
| -22°F (-30°C)                            | 21 ft-lb/in²              | 45 kJ/m²                  |              |
| 73°F (23°C)                              | 21 ft-lb/in²              | 45 kJ/m²                  |              |
| Thermal                                  | Nominal Value (English)   | Nominal Value (SI)        | Test Method  |
| Vicat Softening Temperature              | 235 °F                    | 113 °C                    | ISO 306/B50  |
| CLTE - Flow (-22 to 176°F (-30 to 80°C)) | 4.2E-5 to 4.4E-5 in/in/°F | 7.5E-5 to 8.0E-5 cm/cm/°C | ISO 11359-2  |
| Injection                                | Nominal Value (English)   | Nominal Value (SI)        |              |
| Drying Temperature                       | 212 °F                    | 100 °C                    |              |
| Drying Time                              | 4.0 hr                    | 4.0 hr                    |              |
| Processing (Melt) Temp                   | 491 to 536 °F             | 255 to 280 °C             |              |
| Mold Temperature                         | 140 to 176 °F             | 60 to 80 °C               |              |

## Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<sup>1</sup> Melt Temperature: 500°F (260°C), Injection Pressure: 2.61E+4 psi (1.80E+3 bar)

<sup>2</sup> 0.079 in/min (2.0 mm/min)

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