

# Perlex R203 3-0205 PUR

## LyondellBasell Industries - Polycarbonate

### General Information

#### Product Description

Perlex R203 3-0205 PUR is a Polycarbonate material. Features include: Good Flow, and UV Resistant.

#### General

|          |                           |                     |                 |
|----------|---------------------------|---------------------|-----------------|
| Additive | • UV Stabilizer           |                     |                 |
| Features | • Good Flow               | • UV Resistant      | • UV Stabilized |
| Uses     | • Automotive Applications | • Lighting Fixtures |                 |

### Properties <sup>1</sup>

| Physical   | Nominal Value | Unit                  | Test Method    |
|--|---------------|-----------------------|----------------|
| Density  | 1.20          | g/cm <sup>3</sup>     | ISO 1183       |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)                 | 26            | g/10 min              | ISO 1133       |
| Mechanical   | Nominal Value | Unit                  | Test Method    |
| Tensile Modulus  | 341000        | psi                   | ISO 527-1      |
| Tensile Stress (Yield)                                   | 8700          | psi                   | ISO 527-2      |
| Tensile Strain (Break)                                   | 100           | %                     | ISO 527-2      |
| Flexural Modulus   | 334000        | psi                   | ISO 178        |
| Flexural Stress  | 13100         | psi                   | ISO 178        |
| Impact   | Nominal Value | Unit                  | Test Method    |
| Notched Izod Impact (Area) (73°F)                        | 19.0          | ft-lb/in <sup>2</sup> | ASTM D256      |
| Thermal  | Nominal Value | Unit                  | Test Method    |
| Deflection Temperature Under Load (66 psi, Unannealed)   | 275           | °F                    | ISO 75-2/B     |
| Deflection Temperature Under Load<br>264 psi, Unannealed | 257           | °F                    | ISO 75-2/A     |
| Vicat Softening Temperature                              | 286           | °F                    | ISO 306/B50    |
| Flammability   | Nominal Value | Unit                  | Test Method    |
| Burning Rate   |               |                       |                |
| 0.0787 in  | < 3.9         | in/min                | FMVSS 302      |
| 0.0787 in  | < 3.9         | in/min                | ISO 3795       |
| Flame Rating   |               |                       | UL 94          |
| 0.031 in   |               | HB                    |                |
| 0.06 in  |               | HB                    |                |
| 0.12 in  |               | HB                    |                |
| Glow Wire Ignition Temperature                           |               |                       | IEC 60695-2-13 |
| 0.04 in  | 1560          | °F                    |                |
| 0.08 in  | 1560          | °F                    |                |
| 0.12 in  | 1560          | °F                    |                |