

## Technical Data Sheet

**Lucent Pc PC1952I6FRUL**

Polycarbonate  
LyondellBasell Industries  
Engineering Plastics

**General**

|                 |                      |
|-----------------|----------------------|
| Material Status | • Commercial: Active |
| Availability    | • North America      |
| Forms           | • Pellets            |

| Physical                          | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
|-----------------------------------|--------------------------|------------------------|-------------|
| Density                           | 1.20 g/cm <sup>3</sup>   | 1.20 g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR)         | 10 g/10 min              | 10 g/10 min            | ISO 1133    |
| Mechanical                        | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Tensile Modulus                   | 344000 psi               | 2370 MPa               | ISO 527-1   |
| Tensile Stress (Yield)            | 8850 psi                 | 61.0 MPa               | ISO 527-2   |
| Tensile Strain                    |                          |                        | ISO 527-2   |
| Yield                             | 5.5 %                    | 5.5 %                  |             |
| Break                             | 110 %                    | 110 %                  |             |
| Flexural Modulus                  | 333000 psi               | 2300 MPa               | ISO 178     |
| Flexural Stress                   | 13500 psi                | 92.7 MPa               | ISO 178     |
| Impact                            | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Charpy Notched Impact Strength    | 35 ft-lb/in <sup>2</sup> | 73 kJ/m <sup>2</sup>   | ISO 179     |
| Charpy Unnotched Impact Strength  | No Break                 | No Break               | ISO 179     |
| Thermal                           | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load |                          |                        |             |
| 66 psi (0.45 MPa), Unannealed     | 287 °F                   | 142 °C                 | ISO 75-2/B  |
| 264 psi (1.8 MPa), Unannealed     | 264 °F                   | 129 °C                 | ISO 75-2/A  |

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| Injection                          | Nominal Value (English) | Nominal Value (SI) |
|------------------------------------|-------------------------|--------------------|
| Drying Temperature - Hot Air Dryer | 250 °F                  | 121 °C             |
| Drying Time - Hot Air Dryer        | 4.0 hr                  | 4.0 hr             |
| Rear Temperature                   | 480 to 570 °F           | 249 to 299 °C      |
| Middle Temperature                 | 480 to 570 °F           | 249 to 299 °C      |
| Front Temperature                  | 480 to 570 °F           | 249 to 299 °C      |
| Processing (Melt) Temp             | 540 to 570 °F           | 282 to 299 °C      |
| Mold Temperature                   | 160 to 220 °F           | 71 to 104 °C       |
| Injection Rate                     | Slow-Moderate           | Slow-Moderate      |
| Back Pressure                      | 50.0 to 100 psi         | 0.345 to 0.689 MPa |
| Screw Speed                        | 40 to 75 rpm            | 40 to 75 rpm       |
| Cushion                            | 0.250 to 0.500 in       | 6.35 to 12.7 mm    |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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