

## Technical Data Sheet

**Lucent Pp TPP-0310-20**

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

20% Talc Filled, Homopolymer Polypropylene

Melt Flow Adjustable for Application  
Colors Available  
Add "U" for UV Stabilized  
Add "H" for Heat Stabilized  
GMP.PP.087R

**General**

|                        |                              |
|------------------------|------------------------------|
| Material Status        | • Commercial: Active         |
| Availability           | • North America              |
| Filler / Reinforcement | • Talc, 20% Filler by Weight |
| Features               | • Homopolymer                |
| Appearance             | • Colors Available           |
| Processing Method      | • Injection Molding          |

| Physical                                                           | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|--------------------------------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity                                         | 1.05                    | 1.05 g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                                                         | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Strength (Yield)                                           | 4800 psi                | 33.1 MPa               | ASTM D638   |
| Tensile Elongation (Break)                                         | > 10 %                  | > 10 %                 | ASTM D638   |
| Flexural Modulus                                                   | 320000 psi              | 2210 MPa               | ASTM D790   |
| Flexural Strength                                                  | 7400 psi                | 51.0 MPa               | ASTM D790   |
| Impact                                                             | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact (0.125 in (3.18 mm))                           | 0.50 ft·lb/in           | 27 J/m                 | ASTM D256   |
| Thermal                                                            | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load<br>264 psi (1.8 MPa), Unannealed | 170 °F                  | 76.7 °C                | ASTM D648   |

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 2.0 to 3.0 hr           | 2.0 to 3.0 hr      |
| Processing (Melt) Temp | 428 to 500 °F           | 220 to 260 °C      |
| Mold Temperature       | 86 to 140 °F            | 30 to 60 °C        |

## 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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