

## Technical Data Sheet

**Lucent Pa L6-140**

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

15% Glass/25% Mineral Reinforced Nylon 6

Colors Available

Add "H" for Heat Stabilized

Add "HU" for Weatherable

Typical Properties, Dry as Molded

**General**

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| Material Status        | • Commercial: Active                                                |
| Availability           | • North America                                                     |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight • Mineral, 25% Filler by Weight |
| Appearance             | • Colors Available                                                  |

| Physical                          | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|-----------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity        | 1.48                    | 1.48 g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                        | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Strength (Yield)          | 14500 psi               | 100 MPa                | ASTM D638   |
| Tensile Elongation (Break)        | 1.0 %                   | 1.0 %                  | ASTM D638   |
| Flexural Modulus                  | 900000 psi              | 6210 MPa               | ASTM D790   |
| Flexural Strength                 | 22000 psi               | 152 MPa                | ASTM D790   |
| Impact                            | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact               |                         |                        | ASTM D256   |
| 73°F (23°C), 0.125 in (3.18 mm)   | 0.80 ft·lb/in           | 43 J/m                 |             |
| Thermal                           | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load |                         |                        | ASTM D648   |
| 264 psi (1.8 MPa), Unannealed     | 382 °F                  | 194 °C                 |             |
| Peak Melting Temperature          | 420 to 437 °F           | 216 to 225 °C          | ASTM D789   |

**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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