

## Technical Data Sheet

**Accucomp ABS811L**

Acrylonitrile Butadiene Styrene  
LyondellBasell Industries  
Engineering Plastics

**General**

|                 |                            |
|-----------------|----------------------------|
| Material Status | • Commercial: Active       |
| Availability    | • North America            |
| Features        | • Medium Impact Resistance |
| Forms           | • Pellets                  |

| Physical                                 | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity               | 1.05                    | 1.05 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 3.0 g/10 min            | 3.0 g/10 min           | ASTM D1238  |
| Mechanical                               | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Modulus                          | 254000 psi              | 1750 MPa               | ASTM D638   |
| Tensile Strength (Yield)                 | 6670 psi                | 46.0 MPa               | ASTM D638   |
| Tensile Elongation (Break)               | 20 %                    | 20 %                   | ASTM D638   |
| Flexural Modulus                         | 392000 psi              | 2700 MPa               | ASTM D790   |
| Flexural Strength                        | 10200 psi               | 70.0 MPa               | ASTM D790   |
| Impact                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                      | 6.7 ft·lb/in            | 360 J/m                | ASTM D256   |
| Thermal                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load        |                         |                        | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed            | 183 °F                  | 84.0 °C                |             |
| 264 psi (1.8 MPa), Unannealed            | 163 °F                  | 73.0 °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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