

## Technical Data Sheet

**Accucomp POL052L**

Polycarbonate  
LyondellBasell Industries  
Engineering Plastics

**General**

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

| Physical                                 | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity               | 1.20                    | 1.20 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 10 g/10 min             | 10 g/10 min            | ASTM D1238  |
| Mechanical                               | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Modulus                          | 261000 psi              | 1800 MPa               | ASTM D638   |
| Tensile Strength                         |                         |                        | ASTM D638   |
| Yield                                    | 9570 psi                | 66.0 MPa               |             |
| Break                                    | 9430 psi                | 65.0 MPa               |             |
| Tensile Elongation                       |                         |                        | ASTM D638   |
| Yield                                    | 75 %                    | 75 %                   |             |
| Break                                    | 130 %                   | 130 %                  |             |
| Flexural Modulus                         | 392000 psi              | 2700 MPa               | ASTM D790   |
| Flexural Strength                        | 14100 psi               | 97.0 MPa               | ASTM D790   |
| Impact                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                      | 18 ft·lb/in             | 950 J/m                | ASTM D256   |
| Hardness                                 | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Rockwell Hardness (R-Scale)              | 122                     | 122                    | ASTM D785   |
| Thermal                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load        |                         |                        | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed            | 280 °F                  | 138 °C                 |             |
| 264 psi (1.8 MPa), Unannealed            | 257 °F                  | 125 °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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