

## Technical Data Sheet

**Accucomp ACR005L**

Acrylic  
LyondellBasell Industries  
Engineering Plastics

| General                                  |                         |                        |             |
|------------------------------------------|-------------------------|------------------------|-------------|
| Material Status                          | • Commercial: Active    |                        |             |
| Availability                             | • North America         |                        |             |
| Forms                                    | • Pellets               |                        |             |
| Physical                                 | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity               | 1.19                    | 1.19 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/1.2 kg) | 2.0 g/10 min            | 2.0 g/10 min           | ASTM D1238  |
| Mechanical                               | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Modulus                          | 319000 psi              | 2200 MPa               | ASTM D638   |
| Tensile Strength                         |                         |                        | ASTM D638   |
| Yield                                    | 10200 psi               | 70.0 MPa               |             |
| Break                                    | 9860 psi                | 68.0 MPa               |             |
| Tensile Elongation                       |                         |                        | ASTM D638   |
| Yield                                    | 5.0 %                   | 5.0 %                  |             |
| Break                                    | 10 %                    | 10 %                   |             |
| Flexural Modulus                         | 479000 psi              | 3300 MPa               | ASTM D790   |
| Flexural Strength                        | 16700 psi               | 115 MPa                | ASTM D790   |
| Impact                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact (0.125 in (3.18 mm)) | 0.28 ft·lb/in           | 15 J/m                 | ASTM D256   |
| Hardness                                 | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Rockwell Hardness (R-Scale)              | 123                     | 123                    | ASTM D785   |
| Thermal                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load        |                         |                        | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed            | 203 °F                  | 95.0 °C                |             |
| 264 psi (1.8 MPa), Unannealed            | 176 °F                  | 80.0 °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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