

# Accucomp ASA003L

Acrylonitrile Styrene Acrylate

LyondellBasell Industries

Engineering Plastics

| General                                   |                         |                        |             |
|-------------------------------------------|-------------------------|------------------------|-------------|
| Forms                                     | • Pellets               |                        |             |
| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity                | 1.07                    | 1.07 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 Kg) | 11 g/10 min             | 11 g/10 min            | ASTM D1238  |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Modulus                           | 247000 psi              | 1700 MPa               | ASTM D638   |
| Tensile Strength                          |                         |                        | ASTM D638   |
| Yield                                     | 5950 psi                | 41.0 MPa               |             |
| Break                                     | 4640 psi                | 32.0 MPa               |             |
| Tensile Elongation                        |                         |                        | ASTM D638   |
| Yield                                     | 3.0 %                   | 3.0 %                  |             |
| Break                                     | 30 %                    | 30 %                   |             |
| Flexural Modulus                          | 305000 psi              | 2100 MPa               | ASTM D790   |
| Flexural Strength                         | 8700 psi                | 60.0 MPa               | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact (0.125 In (3.18 Mm))  | 4.9 ft·lb/in            | 260 J/m                | ASTM D256   |
| Hardness                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Rockwell Hardness (R-scale)               | 97                      | 97                     | ASTM D785   |
| Thermal                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load         |                         |                        | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed             | 185 °F                  | 85.0 °C                |             |
| 264 Psi (1.8 Mpa), Unannealed             | 158 °F                  | 70.0 °C                |             |

## Notes

These are typical property values not to be construed as specification limits.

