

# Adell Polyamide BJ-37 Glass Reinforced High Impact

Polyamide 6

Adell Plastics, Inc.

Message:

Adell Polyamide BJ-37 Glass Reinforced High Impact is a Polyamide 6 (Nylon 6) material filled with glass fiber. It is available in North America. Primary attribute of Adell Polyamide BJ-37 Glass Reinforced High Impact: Impact Resistant.

| General Information                 |                        |                   |             |
|-------------------------------------|------------------------|-------------------|-------------|
| Filler / Reinforcement              | Glass Fiber            |                   |             |
| Features                            | High Impact Resistance |                   |             |
| Forms                               | Pellets                |                   |             |
| Physical                            | Nominal Value          | Unit              | Test Method |
| Specific Gravity                    | 1.31 to 1.33           | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow            | 0.20 to 0.50           | %                 | ASTM D955   |
| Water Absorption (24 hr)            | 0.70                   | %                 | ASTM D570   |
| Hardness                            | Nominal Value          | Unit              | Test Method |
| Rockwell Hardness                   | ASTM D785              |                   |             |
| M-Scale                             | 83                     |                   |             |
| R-Scale                             | 118                    |                   |             |
| Mechanical                          | Nominal Value          | Unit              | Test Method |
| Tensile Strength                    | 134                    | MPa               | ASTM D638   |
| Tensile Elongation (Break)          | 3.0 to 4.0             | %                 | ASTM D638   |
| Flexural Modulus                    | 5860                   | MPa               | ASTM D790   |
| Flexural Strength                   | 186                    | MPa               | ASTM D790   |
| Compressive Strength                | 145                    | MPa               | ASTM D695   |
| Impact                              | Nominal Value          | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 210                    | J/m               | ASTM D256   |
| Thermal                             | Nominal Value          | Unit              | Test Method |
| Deflection Temperature Under Load   | ASTM D648              |                   |             |
| 0.45 MPa, Unannealed                | 218                    | °C                |             |
| 1.8 MPa, Unannealed                 | 213                    | °C                |             |
| Melting Temperature                 | 210 to 221             | °C                | ASTM D789   |

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