

# Adell Polyamide BR-110

Polyamide 6

Adell Plastics, Inc.

## Message:

Adell Polyamide BR-110 is a Polyamide 6 (Nylon 6) material filled with 50% glass fiber. It is available in North America.

| General Information                 |                                  |       |             |
|-------------------------------------|----------------------------------|-------|-------------|
| Filler / Reinforcement              | Glass Fiber,50% Filler by Weight |       |             |
| Forms                               | Pellets                          |       |             |
| Physical                            | Nominal Value                    | Unit  | Test Method |
| Specific Gravity                    | 1.56                             | g/cm³ | ASTM D792   |
| Molding Shrinkage - Flow            | 0.10 to 0.40                     | %     | ASTM D955   |
| Water Absorption (24 hr)            | 0.90                             | %     | ASTM D570   |
| Hardness                            | Nominal Value                    | Unit  | Test Method |
| Rockwell Hardness                   |                                  |       | ASTM D785   |
| M-Scale                             | 103                              |       |             |
| R-Scale                             | 123                              |       |             |
| Mechanical                          | Nominal Value                    | Unit  | Test Method |
| Tensile Strength (Yield)            | 217                              | MPa   | ASTM D638   |
| Tensile Elongation (Break)          | 2.0                              | %     | ASTM D638   |
| Flexural Modulus                    | 10300                            | MPa   | ASTM D790   |
| Flexural Strength (Yield)           | 269                              | MPa   | ASTM D790   |
| Compressive Strength                | 241                              | MPa   | ASTM D695   |
| Impact                              | Nominal Value                    | Unit  | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 160                              | 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                 | 216                              | °C    |             |
| Melting Temperature                 | 216 to 227                       | °C    |             |

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