

# Adell Polyamide AB-16

Polyamide 66

Adell Plastics, Inc.

## Message:

Adell Polyamide AB-16 is a Polyamide 66 (Nylon 66) material filled with 30% glass bead. It is available in North America.

| General Information                 |                                 |                   |             |
|-------------------------------------|---------------------------------|-------------------|-------------|
| Filler / Reinforcement              | Glass Bead,30% Filler by Weight |                   |             |
| Forms                               | Pellets                         |                   |             |
| Physical                            | Nominal Value                   | Unit              | Test Method |
| Specific Gravity                    | 1.36                            | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow            | 0.90 to 1.2                     | %                 | ASTM D955   |
| Water Absorption (24 hr)            | 0.90                            | %                 | ASTM D570   |
| Hardness                            | Nominal Value                   | Unit              | Test Method |
| Rockwell Hardness                   |                                 |                   | ASTM D785   |
| M-Scale                             | 96                              |                   |             |
| R-Scale                             | 121                             |                   |             |
| Mechanical                          | Nominal Value                   | Unit              | Test Method |
| Tensile Strength (Yield)            | 93.1                            | MPa               | ASTM D638   |
| Tensile Elongation (Break)          | 3.0                             | %                 | ASTM D638   |
| Flexural Modulus                    | 4310                            | MPa               | ASTM D790   |
| Flexural Strength (Yield)           | 121                             | MPa               | ASTM D790   |
| Compressive Strength                | 234                             | MPa               | ASTM D695   |
| Impact                              | Nominal Value                   | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 35                              | 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                 | 85.0                            | °C                |             |
| Melting Temperature                 | 254 to 266                      | °C                |             |

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