

# Adell Polyamide BH-18

Polyamide 6

Adell Plastics, Inc.

## Message:

Adell Polyamide BH-18 is a polyamide 6 (nylon 6) material that contains 40% mineral fillers. This product is available in North America.

| General Information                                                                |                                      |                   |             |
|------------------------------------------------------------------------------------|--------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                                             | Mineral filler, 40% filler by weight |                   |             |
| Forms                                                                              | Particle                             |                   |             |
| Physical                                                                           | Nominal Value                        | Unit              | Test Method |
| Specific Gravity                                                                   | 1.48                                 | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                                                           | 0.80 - 1.2                           | %                 | ASTM D955   |
| Water Absorption (24 hr)                                                           | 0.70                                 | %                 | ASTM D570   |
| Hardness                                                                           | Nominal Value                        | Unit              | Test Method |
| Rockwell Hardness                                                                  |                                      |                   | ASTM D785   |
| Class m                                                                            | 90                                   |                   | ASTM D785   |
| Class r                                                                            | 121                                  |                   | ASTM D785   |
| Mechanical                                                                         | Nominal Value                        | Unit              | Test Method |
| Tensile Strength                                                                   | 86.2                                 | MPa               | ASTM D638   |
| Tensile Elongation (Break)                                                         | 13                                   | %                 | ASTM D638   |
| Flexural Modulus                                                                   | 5170                                 | MPa               | ASTM D790   |
| Flexural Strength                                                                  | 124                                  | MPa               | ASTM D790   |
| Compressive Strength                                                               | 159                                  | MPa               | ASTM D695   |
| Impact                                                                             | Nominal Value                        | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)                                                | 40                                   | J/m               | ASTM D256   |
| Thermal                                                                            | Nominal Value                        | Unit              | Test Method |
| Deflection Temperature Under Load                                                  |                                      |                   | ASTM D648   |
| 0.45 MPa, not annealed                                                             | 182                                  | °C                | ASTM D648   |
| 1.8 MPa, not annealed                                                              | 143                                  | °C                | ASTM D648   |
| Melting Temperature                                                                | 216 - 227                            | °C                |             |
| Additional Information                                                             |                                      |                   |             |
| Elongation at Break, ASTM D638: 10 to 15%Specific Gravity, ASTM D792: 1.47 to 1.49 |                                      |                   |             |

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