

# Adell PP ER-19

Polypropylene Homopolymer

Adell Plastics, Inc.

## Message:

Adell PP ER-19 is a Polypropylene Homopolymer (PP Homopolymer) material filled with 43% glass fiber. It is available in North America.

Important attributes of Adell PP ER-19 are:

Flame Rated

High Stiffness

| General Information                   |                                  |                   |             |
|---------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                | Glass Fiber,43% Filler by Weight |                   |             |
| Features                              | High Stiffness                   |                   |             |
| Physical                              | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                      | 1.25                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow              | 0.10 to 0.20                     | %                 | ASTM D955   |
| Water Absorption (24 hr)              | 0.030                            | %                 | ASTM D570   |
| Hardness                              | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness                     |                                  |                   | ASTM D785   |
| M-Scale                               | 63                               |                   |             |
| R-Scale                               | 118                              |                   |             |
| Mechanical                            | Nominal Value                    | Unit              | Test Method |
| Tensile Strength                      | 100                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)            | 4.0                              | %                 | ASTM D638   |
| Flexural Modulus                      | 8960                             | MPa               | ASTM D790   |
| Flexural Strength                     | 150                              | MPa               | ASTM D790   |
| Impact                                | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)   | 100                              | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C, 3.18 mm) | 450                              | J/m               | ASTM D256   |
| Gardner Impact                        | 0.791                            | J                 | ASTM D3029  |
| Thermal                               | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load     |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                  | 175                              | °C                |             |
| 1.8 MPa, Unannealed                   | 175                              | °C                |             |
| Melting Temperature                   | 171 to 193                       | °C                | ASTM D789   |
| Flammability                          | Nominal Value                    | Test Method       |             |
| Flame Rating                          | HB                               | UL 94             |             |

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