

# Adell PE KR-16

High Density Polyethylene

Adell Plastics, Inc.

## Message:

Adell PE KR-16 is a High Density Polyethylene material filled with 30% glass fiber. It is available in North America.

| General Information                 |                                  |                   |             |
|-------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement              | Glass Fiber,30% Filler by Weight |                   |             |
| Forms                               | Pellets                          |                   |             |
| Physical                            | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                    | 1.16                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow            | 0.30 to 0.60                     | %                 | ASTM D955   |
| Water Absorption (24 hr)            | 0.015                            | %                 | ASTM D570   |
| Hardness                            | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness                   |                                  |                   | ASTM D785   |
| M-Scale                             | 63                               |                   |             |
| R-Scale                             | 85                               |                   |             |
| Mechanical                          | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (Yield)            | 65.5                             | MPa               | ASTM D638   |
| Tensile Elongation (Break)          | 1.0                              | %                 | ASTM D638   |
| Flexural Modulus                    | 4140                             | MPa               | ASTM D790   |
| Flexural Strength (Yield)           | 72.4                             | MPa               | ASTM D790   |
| Compressive Strength                | 49.0                             | 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                | 129                              | °C                |             |
| 1.8 MPa, Unannealed                 | 121                              | °C                |             |

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