

# Adell PET WL-38

Polyethylene Terephthalate

Adell Plastics, Inc.

Message:

Adell PET WL-38 is a Polyethylene Terephthalate (PET) material filled with 40% glass\mineral. It is available in North America.

| General Information                 |                                    |                   |             |
|-------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement              | Glass\Mineral,40% Filler by Weight |                   |             |
| Forms                               | Pellets                            |                   |             |
| Physical                            | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                    | 1.60                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow            | 0.20 to 0.30                       | %                 | ASTM D955   |
| Water Absorption (24 hr)            | 0.050                              | %                 | ASTM D570   |
| Hardness                            | Nominal Value                      | Unit              | Test Method |
| Rockwell Hardness                   |                                    |                   | ASTM D785   |
| M-Scale                             | 87                                 |                   |             |
| R-Scale                             | 120                                |                   |             |
| Mechanical                          | Nominal Value                      | Unit              | Test Method |
| Tensile Strength                    | 124                                | MPa               | ASTM D638   |
| Flexural Modulus                    | 8340                               | MPa               | ASTM D790   |
| Flexural Strength                   | 175                                | MPa               | ASTM D790   |
| Compressive Strength                | 145                                | MPa               | ASTM D695   |
| Impact                              | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 69                                 | J/m               | ASTM D256   |
| Thermal                             | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load   |                                    |                   | ASTM D648   |
| 0.45 MPa, Unannealed                | 243                                | °C                |             |
| 1.8 MPa, Unannealed                 | 215                                | °C                |             |
| Melting Temperature                 | 232 to 249                         | °C                |             |

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