



Technical Data Sheet

Resurgens® E2600R

High Density Polyethylene (HDPE) – 25% Recycle Content

Date: January, 2008

General

| | |
|------------|---|
| Features | Excellent chemical resistance Versatile balance of properties Environmentally responsible |
| Appearance | Pigmented Pellets |
| Processes | Injection molding |

Typical Compound Properties^(a)

| | Nominal Values | | Test Methods ^(b) |
|---|----------------------------------|----------------------------------|-----------------------------|
| Physical | English Units | Metric Units | |
| Melt Flow Rate | 8.0 g/10 min. | 8.0 dg/min. | ASTM D1238, 2160 g. @ 190°C |
| Melt Point | 265 °F | 129 °C | ASTM D789 |
| Specific Gravity | 0.95 | 0.95 | ASTM D792 |
| Linear Mold Shrinkage | 0.020 in/in | 0.020 mm/mm | ASTM D955 |
| Hardness, Shore | D65 | D65 | ASTM D785 |
| Coefficient of Linear Thermal Expansion | 2.40 x 10 ⁻⁵ in/in °F | 1.68 x 10 ⁻⁴ cm/cm °C | ASTM D696 |

Mechanical

| | | | |
|-------------------------------------|---------------|----------|-----------|
| Notched Izod Impact @ 73 °F (23 °C) | 1.0 ft-lb/in. | 53.4 J/m | ASTM D256 |
| Tensile Strength @ Yield | 3,500 psi | 24.1 MPa | ASTM D638 |
| Elongation @ Break | 500% | 500% | ASTM D638 |
| Flexural Modulus, tangent | 120,000 psi | 828 MPa | ASTM D790 |
| Heat Deflection Temperature | | | |
| @ 66 psi (0.455 MPa) | 157 °F | 69 °C | ASTM D648 |
| @ 264 psi (1.82 MPa) | 130 °F | 54 °C | ASTM D648 |

(a) Values shown represent nominal averages and are not to be construed as product specifications.

(b) ASTM methods are the latest under the Society's current Procedures. All Molded specimens are prepared by injection molding.

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