



# POLYETHYLENE RESIN PRODUCT DATA AND TECHNICAL INFORMATION

Name: Houston PolyTank Polyethylene Resin  
 Resin Type: High Density Polyethylene Resin, HDPE HD 9830.02  
 Availability: Latin America and North America  
 Additive: Antistatic: No      Thermal Stabilizer: Yes      UV Stabilizer: No  
 Applications: Blow Molding      Personal Care      Drainage Pipes      Sheet Extrusion  
 Form(s): Pellets  
 Revision Date: 5/2010

| Resin Properties | Typical Value Unit      | Test Based On |
|------------------|-------------------------|---------------|
| Density          | 0.956 g/cm <sup>3</sup> | ASTM D1505    |
| Melt Index       | 0.30 g/10 min           | ASTM D1238    |

| Thermal                     | Typical Value Unit | Test Based On |
|-----------------------------|--------------------|---------------|
| Brittleness Temperature     | <-76 °F            | ASTM D746     |
| Vicat Softening Temperature | 261 °F             | ASTM D1525    |

| Molded Properties                                   | Typical Value Unit | Test Based On |
|---|--------------------|---------------|
| Tensile Strength at Yield                           | 4030 psi           | ASTM D638     |
| Tensile Strength at Break                           | 1970 psi           | ASTM D638     |
| Flexural Modulus                                    | 180000 psi         | ASTM D790     |
| Environmental Stress-Crack Resistance (100% Igepal) | 366 hr             | ASTM D1693B   |

| Impact                  | Typical Value Unit               | Test Based On |
|-------------------------|----------------------------------|---------------|
| Tensile Impact Strength | (73°F) 126 ft-lb/in <sup>2</sup> | ASTM D1822    |

## Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

## Processing Statement

1. Values are typical and should not be interpreted as specifications. Values may change with future development.
2. All molded properties were measured on compression molded plaques.
3. Bulk Density: 585 Kg/m<sup>3</sup> (36.4 lbs/ft<sup>3</sup>)
4. Flexural modulus tested using Procedure A (1"x3"x0.125"), tangent calculation.
5. ESCR tested using Condition B, 100% Igepal.