

# Paxon™ BA50-100

## High Density Polyethylene Resin

### Product Description

BA50-100 is a high molecular weight, high density polyethylene copolymer. This resin has superior stress crack resistance, high impact strength and good rigidity.

### General

|              |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additive     | <ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> <li>Antistatic: No</li> </ul>                                                                                                                                                                                                                                                                                 |
| Applications | <ul style="list-style-type: none"> <li>Agriculture Products Containers</li> <li>Automotive Fittings</li> <li>Automotive Fuel Tanks - Excluding biodiesel</li> <li>Drums</li> <li>Food Packaging</li> <li>Heavy Gauge Sheet</li> <li>Large Part Blow Molding</li> <li>Pallets</li> <li>Portable Fuel Tanks</li> <li>Small Engine Fuel Tanks</li> <li>Thermoformed Parts</li> </ul> |

| Resin Properties                     | Typical Value (English) | Typical Value (SI)      | Test Based On |
|--------------------------------------|-------------------------|-------------------------|---------------|
| Density                              | 0.949 g/cm <sup>3</sup> | 0.949 g/cm <sup>3</sup> | ASTM D4883    |
| Melt Index (190°C/2.16 kg)           | < 0.10 g/10 min         | < 0.10 g/10 min         | ASTM D1238    |
| High Load Melt Index (190°C/21.6 kg) | 10 g/10 min             | 10 g/10 min             | ASTM D1238    |

| Thermal                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Brittleness Temperature     | < -105 °F               | < -76 °C           | ASTM D746     |
| Vicat Softening Temperature | 248 °F                  | 120 °C             | ASTM D1525    |

| Molded Properties                                 | Typical Value (English) | Typical Value (SI) | Test Based On |
|---------------------------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield                         | 3800 psi                | 26 MPa             | ASTM D638     |
| Flexural Modulus                                  | 180000 psi              | 1200 MPa           | ASTM D790     |
| Environmental Stress-Crack Resistance 100% Igepal | > 800 hr                | > 800 hr           | ASTM D1693    |

| Impact                                | Typical Value (English)   | Typical Value (SI)    | Test Based On |
|---------------------------------------|---------------------------|-----------------------|---------------|
| Tensile Impact Strength (73°F (23°C)) | 120 ft-lb/in <sup>2</sup> | 250 kJ/m <sup>2</sup> | ASTM D1822    |

### Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

This product is not intended for use in fuel systems utilizing biodiesel including drum, portable fuel tank and small engine fuel tank applications.

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

### Processing Statement

1. Values may change with future development. 2. All molded properties were measured on compression molded plaques. 3. Flexural modulus tested using Procedure A (1"x3"x0.125"), tangent calculation. 4. ESCR tested using Condition B, 100% Igepal. 5. BA50-100 has NSF and UL recognition. Contact your ExxonMobil Chemical representative for details.

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.