

# Paxon™ AS55-003

## High Density Polyethylene Resin

### Product Description

AS55-003 is a blow molding grade high density polyethylene copolymer containing an antistat additive. It provides a good balance of stiffness and stress crack resistance.

### General

|                           |  |
|---------------------------|--|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>   |
| Additive                  | <ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> <li>Antistatic: Yes</li> </ul>   |
| Applications              | <ul style="list-style-type: none"> <li>Drainage Pipes</li> <li>Food packaging</li> <li>Household and Industrial chemical containers</li> <li>Pharmaceutical Packaging</li> <li>Thermoformed Parts</li> <li>Thin Gauge Sheet</li> </ul> |
| Revision Date             | <ul style="list-style-type: none"> <li>03/01/2010</li> </ul>   |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On |
|----------------------------|-------------------------|-------------------------|---------------|
| Density                    | 0.954 g/cm <sup>3</sup> | 0.954 g/cm <sup>3</sup> | ASTM D4883    |
| Melt Index (190°C/2.16 kg) | 0.30 g/10 min           | 0.30 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 | 261 °F                  | 127 °C             | ASTM D1525    |

| Molded Properties                                    | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Tensile Strength at Yield                            | 4100 psi                | 28 MPa             | ASTM D638     |
| Flexural Modulus                                     | 190000 psi              | 1300 MPa           | ASTM D790     |
| Environmental Stress-Crack Resistance<br>100% Igepal | 30 hr                   | 30 hr              | ASTM D1693    |

| Impact                  | Typical Value (English)  | Typical Value (SI)    | Test Based On |
|-------------------------|--------------------------|-----------------------|---------------|
| Tensile Impact Strength | 90 ft-lb/in <sup>2</sup> | 190 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.

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. AS55-003 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.

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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