

# Paxon™ AF50-003

## High Density Polyethylene Resin

### Product Description

AF50-003 is a blow molding grade high density polyethylene copolymer containing an antistatic additive. It offers very good balance of stress crack resistance, stiffness and impact strength.

### 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>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	0.950 g/cm <sup>3</sup>	0.950 g/cm <sup>3</sup>	ASTM D4883
Melt Index (190°C/2.16 kg)	0.33 g/10 min	0.33 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	255 °F	124 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3900 psi	27 MPa	ASTM D638
Flexural Modulus	170000 psi	1200 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	70 hr	70 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

### Additional Information

AF50-003 is NSF® -51 Certified.

### Legal Statement

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

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

### 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.

### 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.

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

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