

# Paxon™ BA54-030

## High Density Polyethylene Copolymer Resin

### Product Description

Paxon™ BA54-030 is a high molecular weight, high-density polyethylene copolymer. This resin has superior stress crack resistance, high impact strength and good rigidity.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Europe</li> </ul>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>	
Applications	<ul style="list-style-type: none"> <li>Drums</li> <li>Food Packaging</li> <li>Heavy Gauge Sheet</li> </ul>	<ul style="list-style-type: none"> <li>Highway Drainage Pipe</li> <li>Large Part Blow Molding</li> <li>Shot Gun Shells</li> </ul>	<ul style="list-style-type: none"> <li>Thermoformed Parts</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>Blow Molding</li> </ul>	<ul style="list-style-type: none"> <li>Sheet Extrusion</li> </ul>	<ul style="list-style-type: none"> <li>Thermoforming</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>08/21/2020</li> </ul>		

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.955 g/cm <sup>3</sup>	0.955 g/cm <sup>3</sup>	ASTM D1505
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)	3.0 g/10 min	3.0 g/10 min	ASTM D1238

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	264 °F	129 °C	ASTM D1525
Peak Melting Temperature	271 °F	133 °C	ExxonMobil Method
Crystallization Peak, T <sub>c</sub>	244 °F	118 °C	ExxonMobil Method

### Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	4000 psi	28 MPa	ASTM D638
Flexural Modulus			
1% Secant : 0.051 in/min (1.3 mm/min)	150000 psi	1000 MPa	ASTM D790A
2% Secant	120000 psi	850 MPa	ASTM D790
Environmental Stress-Crack Resistance			ASTM D1693B
100% Igepal	580 hr	580 hr	

### Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	21 ft·lb/in <sup>2</sup>	45 kJ/m <sup>2</sup>	
73°F (23°C)	29 ft·lb/in <sup>2</sup>	61 kJ/m <sup>2</sup>	

### Additional Information

All molded properties were measured on compression molded plaques. BA54-030 is NSF® -51 Certified.

### 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).

### 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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