

# Paxon™ SP5504

## High Density Polyethylene Resin

### Product Description

Paxon™ SP 5504 is a blow molding grade high density polyethylene copolymer. It provides an exceptional balance of stress crack resistance, stiffness and impact strength. These properties, coupled with excellent processability on both continuous and intermittent equipment, afford significant opportunities for lightweighting and/or greater use of post-consumer recycle (PCR).

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>	<ul style="list-style-type: none"> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> </ul>		
Applications	<ul style="list-style-type: none"> <li>Blow Molding</li> <li>Drainage Pipes</li> </ul>	<ul style="list-style-type: none"> <li>Food Packaging</li> <li>Personal Care</li> </ul>	<ul style="list-style-type: none"> <li>Sheet Extrusion</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Revision Date	<ul style="list-style-type: none"> <li>04/14/2021</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)	0.35 g/10 min	0.35 g/10 min	ASTM D1238
Peak Melting Temperature	266 °F	130 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	255 °F	124 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	4000 psi	27 MPa	ASTM D638
Flexural Modulus - 1% Secant (0.050 in/min (1.3 mm/min))	180000 psi	1200 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	180 hr	180 hr	ASTM D1693
Durometer Hardness (Shore D, 15 sec)	59	59	ASTM D2240

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	2.6 ft-lb/in <sup>2</sup>	5.4 kJ/m <sup>2</sup>	
73°F (23°C)	3.9 ft-lb/in <sup>2</sup>	8.2 kJ/m <sup>2</sup>	

### 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.

This product is not intended for use in fuel systems utilizing biodiesel.

### Processing Statement

All physical properties were measured on compression molded specimens.

### 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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