

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 ¹ | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific | <ul style="list-style-type: none"> Europe Latin America | <ul style="list-style-type: none"> North America |
| Additive | <ul style="list-style-type: none"> Thermal Stabilizer: Yes | | |
| Applications | <ul style="list-style-type: none"> Blow Molding Drainage Pipes | <ul style="list-style-type: none"> Food Packaging Personal Care | <ul style="list-style-type: none"> Sheet Extrusion |
| Form(s) | <ul style="list-style-type: none"> Pellets | | |
| Revision Date | <ul style="list-style-type: none"> 02/01/2021 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.955 g/cm ³ | 0.955 g/cm ³ | 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 | ExxonMobil Method |

| Molded Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield | 4000 psi | 28 MPa | ExxonMobil Method |
| Flexural Modulus - 1% Secant (0.050 in/min (1.3 mm/min)) | 170000 psi | 1200 MPa | ExxonMobil Method |
| Environmental Stress-Crack Resistance 100% Igepal | 150 hr | 150 hr | ExxonMobil Method |
| Durometer Hardness (Shore D, 15 sec) | 62 | 62 | ExxonMobil Method |

| Impact | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------------|---------------------------|-----------------------|---------------|
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -40°F (-40°C) | 2.3 ft·lb/in ² | 4.9 kJ/m ² | |
| 73°F (23°C) | 3.9 ft·lb/in ² | 8.3 kJ/m ² | |

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.

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

Paxon™ SP5504
High Density Polyethylene Resin

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

©2021 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com