

Paxon™ SP5004

High Density Polyethylene Resin

Product Description

Paxon™ SP5004 is a blow molding grade high density polyethylene copolymer. It provides an exceptional balance of stress crack resistance, stiffness and impact strength. These properties afford significant opportunities for lightweighting in applications where over 1,000 hour bent strip ESCR is required.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Europe 	<ul style="list-style-type: none"> Latin America North America 	
Additive	<ul style="list-style-type: none"> Thermal Stabilizer: Yes 		
Applications	<ul style="list-style-type: none"> Agricultural Products Containers 	<ul style="list-style-type: none"> Food Packaging Household and Industrial chemical containers 	<ul style="list-style-type: none"> Pharmaceutical Packaging
Form(s)	<ul style="list-style-type: none"> Pellets 		
Revision Date	<ul style="list-style-type: none"> 05/24/2023 		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.949 g/cm ³	0.949 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.38 g/10 min	0.38 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	250 °F	121 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3600 psi	25 MPa	ASTM D638
Flexural Modulus - 1% Secant ²	130000 psi	890 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	1200 hr	1200 hr	ASTM D1693B
Durometer Hardness (Shore D, 15 sec)	60	60	ASTM D2240

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength			ISO 179/1eA
-40°F (-40°C)	2.0 ft·lb/in ²	4.1 kJ/m ²	
73°F (23°C)	3.3 ft·lb/in ²	6.9 kJ/m ²	

Legal Statement

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

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

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.

² @ 0.5 in/min

Paxon™ SP5004
High Density Polyethylene Resin

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

©2023 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 Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com