



Technical Data Sheet

NORDEL™ IP 4760P Hydrocarbon Rubber

Overview

NORDEL™ IP 4760P Hydrocarbon Rubber is a semi-crystalline, ethylene-propylene-diene (EPDM) terpolymer. The polymer's unique bimodal ethylene distribution provides a balance of processing characteristics not seen in other semicrystalline EPDMs. NORDEL™ IP 4760P Hydrocarbon Rubber provides better low temperature performance and higher green strength compared to a competitive control polymer.

Sustainability Attribute:



Main Characteristics:

- Semi-crystalline
- Medium diene
- Bimodal ethylene distribution
- Balance of low temperature properties and high green strength

Complies with:

- U.S. FDA 21 CFR 177.2600,
- U.S. FDA 21 CFR 177.1520 (See NOTES 1),
- U.S. FDA 21 CFR 175.105 (See NOTES 2),
- U.S. FDA 21 CFR 177.1210.

Consult the regulations for complete details.

Applications:

- Extruded profiles
- Hoses

NOTES:

1. Can be used in contact with all foods except water in oil emulsions, high or low fat, and low moisture fats and oil.
2. Adhesives only.

Physical Properties

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method ¹
Density	0.870	g/cm ³	0.870	g/cm ³	ASTM D297
Ethylene Content	67.5	wt%	67.5	wt%	ASTM D3900
Ethylidene Norbornene (ENB) Content	5.0	wt%	5.0	wt%	ASTM D6047
Mooney Viscosity (ML 1+4, 257°F (125°C))	60	MU	60	MU	ASTM D1646
Molecular Weight Distribution	Medium		Medium		Dow Method
Propylene Content	27.5	wt%	27.5	wt%	ASTM D3900

Additional Information

Storage and Handling:

The quality of EPDM products may be affected by exposure to artificial or natural light. This product should be stored indoors in its original packaging and out of direct sunlight.

1. ASTM: American Society for Testing and Materials

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

Product Stewardship

The Dow Chemical Company and its subsidiaries ("Dow") has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our Product Stewardship program rests with each and every individual involved with Dow products — from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

Medical Applications Policy

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: Dow will not knowingly sell or sample any product or service ("Product") into any commercial or developmental application that is intended for:

- a. long-term or permanent contact with internal bodily fluids or tissues. "Long-term" is contact which exceeds 72 continuous hours;
- b. use in cardiac prosthetic devices regardless of the length of time involved ("cardiac prosthetic devices" include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);
- c. use as a critical component in medical devices that support or sustain human life; or
- d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

Medical Applications Policy (Cont.)

Dow requests that customers considering use of Dow products in medical applications notify Dow so that appropriate assessments may be conducted. Dow does not endorse or claim suitability of its products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Dow product is safe, lawful, and technically suitable for the intended use. **DOW MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY DOW PRODUCT FOR USE IN MEDICAL APPLICATIONS.**

dow.com

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. **NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.**

NOTICE: If products are described as "experimental" or "developmental": (1) product specifications may not be fully determined; (2) analysis of hazards and caution in handling and use are required; (3) there is greater potential for Dow to change specifications and/or discontinue production; and (4) although Dow may from time to time provide samples of such products, Dow is not obligated to supply or otherwise commercialize such products for any use or application whatsoever.

NOTICE: This data is based on information Dow believes to be reliable, as demonstrated in controlled laboratory testing. They are offered in good faith, but without guarantee, as conditions and method of use of Dow products are beyond Dow's control. Dow recommends that the prospective user determine the suitability of these materials and suggestions before adopting them on a commercial scale.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability for the accuracy and completeness of such information.

For additional information, not covered by the content of this document, contact us via our website http://www.dow.com/products_services/.

This document is intended for use within Asia Pacific, Europe, Latin America, and North America.

