



DOW™ HDPE 05962B

High Density Polyethylene Resin

Overview

DOW HDPE 05962B is a High Density Polyethylene produced via SOLUTION™ technology. This resin presents a narrow molecular weight distribution that offers excellent impact resistance in rigid packaging, high gloss, excellent stiffness and processability.

Main Characteristics

- Resin for Injection Molding
- Pails and Crates
- Resin for Cast film
- Film for diapers, femine hygiene

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 3.1a
- EU, No 10/2011

Consult the regulations for complete details

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.958 g/cm ³	0.958 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
Compression Molded	44.0 hr	44.0 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	4210 psi	29.0 MPa	
Break, Compression Molded	3630 psi	25.0 MPa	
Tensile Elongation			ASTM D638
Break, Compression Molded	2400 %	2400 %	
Flexural Modulus (Compression Molded)	16000 psi	110 MPa	ASTM D790
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	24 µm	
Film Puncture Resistance (0.94 mil (24 µm))	40.0 ft·lb/in ³	3.31 J/cm ³	Dow Method
Secant Modulus			ASTM D882
2% Secant, MD : 0.94 mil (24 µm)	68500 psi	472 MPa	
2% Secant, TD : 0.94 mil (24 µm)	97500 psi	672 MPa	
Tensile Strength			ASTM D882
MD : Yield, 0.94 mil (24 µm)	3920 psi	27.0 MPa	
TD : Yield, 0.94 mil (24 µm)	4060 psi	28.0 MPa	
MD : Break, 0.94 mil (24 µm)	5220 psi	36.0 MPa	
TD : Break, 0.94 mil (24 µm)	4060 psi	28.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 0.94 mil (24 µm)	600 %	600 %	
TD : Break, 0.94 mil (24 µm)	650 %	650 %	
Dart Drop Impact (0.94 mil (24 µm))	8.0 g	8.0 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 0.94 mil (24 µm)	40 g	40 g	
TD : 0.94 mil (24 µm)	120 g	120 g	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	0.47 ft·lb/in	25 J/m	ASTM D256

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	82	82	ASTM D2240
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 0.945 mil (24.0 µm))	85	85	ASTM D2457
Haze (0.945 mil (24.0 µm))	6.00 %	6.00 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	515 °F	268 °C	

Notes

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

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This document is intended for use within Latin America

Published: 2005-05-05

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