SABIC® HDPE B4660

High Density Polyethylene

SABIC

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Technical Data

Product Description

B4660 grade are medium molecular weight High Density Polyethylene homopolymer for blow molding Applications. They are primarily Designed for imparting high rigidity, toughness and good processability. These unique properties offer the possibility to reduce weight at very good top load strength.

B4660: Suitable for Dairy products and Juice Packaging

General

Material Status	• Commercial: Active		
Search for UL Yellow Card	• SABIC		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density [2]	0.961 g/cm³	0.961 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	0.70 g/10 min	0.70 g/10 min	ASTM D1238
190°C/21.6 kg	46 g/10 min	46 g/10 min	ISO 1133
190°C/5.0 kg	2.8 g/10 min	2.8 g/10 min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus - 1% Secant (Compression Molded)	> 145000 psi	> 1000 MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Compression Molded	4350 psi	30.0 MPa	
Break, Compression Molded	2610 psi	18.0 MPa	
Tensile Elongation			ASTM D638
Break, Compression Molded	500 %	500 %	
Flexural Modulus [3] (Compression Molded)	160000 psi	1100 MPa	ISO 178
Flexural Strength (Compression Molded)	4060 psi	28.0 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Unnotched Izod Impact (Compression Molded)	2.8 ft·lb/in	150 J/m	ASTM D4812
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Durometer Hardness			ASTM D2240
Shore D, Compression Molded	66	66	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Brittleness Temperature	< -103 °F	< -75.0 °C	ASTM D746
Vicat Softening Temperature	261 °F	127 °C	ASTM D1525

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 23°C

[3] Type 1A

Form No. TDS-74037-en

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Where to Buy

Supplier

SABIC
Web: http://www.sabic.com/

Distributor

3Polymer (Guangzhou) Chemical Technology Co., Ltd.
Telephone: +86-20-3466-7988
Web: http://3polymer.com
Availability: China

AECTRA
Telephone: +33-4-72-54-36-42
Web: https://www.aectra.fr/
Availability: France

AGI-Augusto Guimarães & Irmão
Telephone: +351-22753-7400
Web: https://www.agi.pt/en/
Availability: Portugal

Distrupol Ltd
Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.
Telephone: 08452003040
Web: http://www.distrupol.com/
Availability: Denmark, Finland, Norway, Sweden

Guzmán Polymers
Telephone: +34-963-992-400
Web: https://www.guzmanglobal.com/en/productos/plastics/
Availability: Italy, Spain, Turkey

Plastoplan
Telephone: +43-1-25040-0
Web: https://www.plastoplan.com/
Availability: Czech Republic, Poland, Slovakia

RESINEX Group
RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.
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Web: http://www.resinex.com/
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