

Technical Data

Product Description

Rigidex® HD4820EA is a medium molecular weight high gloss copolymer high density polyethylene. It has been formulated to give excellent bottle gloss/surface finish using conventional blow moulding equipment without the use of masterbatches.

Typical applications:

- Blow moulded bottles with capacities of up to 1 litre

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• INEOS Olefins & Polymers Europe
Availability	• Europe
Features	• Copolymer • Good Impact Resistance • Good Processability • Good Surface Finish • High Density • High ESCR (Stress Crack Resist.) • High Gloss • Medium Molecular Weight • Medium Rigidity
Uses	• Blow Molding Applications • Bottles
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Blow Molding

Physical	Nominal Value Unit	Test Method
Density	0.952 g/cm ³	ISO 1872
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ³ 50°C, BTT, F50	35.0 hr	ASTM D1693

Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Yield, 23°C)	25.0 MPa	ISO 527-2/2/100
Tensile Strain (Break, 23°C)	> 300 %	ISO 527-2/2/100
Flexural Modulus ⁴ (23°C)	950 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	7.0 kJ/m ²	ISO 179

Additional Information	Nominal Value Unit	Test Method
Bottle Stress Crack Resistance (60°C)	5.0 hr	Internal Method

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 100% concentration

⁴ 100 mm/min

Rigidex® HD4820EA

High Density (MMW) Polyethylene

INEOS Olefins & Polymers Europe

PROSPECTOR®

www.ulprospector.com

Where to Buy

Supplier

INEOS Olefins & Polymers Europe

, Belgium

Telephone: +32-2264-3808

Web: <http://www.ineospolyolefins.com/>

Distributor

Biesterfeld Plastic GmbH

Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.

Telephone: +49-40-32008-0

Web: <http://www.biesterfeld-plastic.com/>

Availability: Algeria, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Egypt, France, Germany, Hungary, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland

GAZECHIM PLASTIQUES

GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.

Telephone: +33-4-67-49-55-37

Web: <http://www.gazechim.com/>

Availability: France

