



Rigidex® HD4820EA

Product Technical Information

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

Benefits and Features

- Excellent gloss
- Easy processing
- Good rigidity
- Environmental stress crack resistance
- Good impact strength

Properties		Test Methods	Values	Units
Physical				
Density (annealed)		ISO 1872	952	kg/m ³
Melt Flow Rate	2.16 kg load	ISO 1133	2.5	g/10min
Mechanical				
Tensile Strength @ yield (23°C, Type 2 Speed D)		ISO 527	25	MPa
Elongation @ break (23°C, Type 2 Speed D)		ISO 527	> 300	%
Flexural Modulus (23°C @ 100 mm/min)		ISO 178	950	MPa
Charpy Impact Strength		ISO 179	7	kJ/m ²
BTT stress crack resistance (F50 @ 50°C, 100% concentration)		ASTM D 1693	35	hours
Bottle stress crack resistance (60°C)		INEOS Method	5	hours

The values given are typical values measured on the product. These values should not be considered as specification



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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an email to psnohreg@ineos.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Material Safety Data Sheet (MSDS) that may be obtained from the website www.ineospolyolefins.com. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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