



# RIGIDEX<sup>®</sup> HD4820EA

## Product Technical Information

**RIGIDEX<sup>®</sup> 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.

## Characteristics

- 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	Conditions	Test Methods	Values	Units
<b>Rheological</b>				
Melt Flow Rate	190°C/2.16 kg	ISO 1133-1	2.5	g/10min
<b>Physical</b>				
Density	23°C, conditioning ISO 17855-1	ISO 1183-1	952	kg/m <sup>3</sup>
<b>Mechanical</b>				
Environmental Stress Cracking Resistance (BTI)	F50, 50°C, 100% concentration	ISO 1183-1	952	kg/m <sup>3</sup>
Bottle stress crack resistance	F50, 50°C, 100% concentration	ASTM D1693	35	h
Charpy Impact Strength		ISO 179-1	7	kJ/m <sup>2</sup>
Elongation at Break	23°C, Type 2 Speed D	ISO 527	> 300	%
Flexural Modulus	23°C, 100 mm/min	ISO 178	950	MPa
Tensile Strength at Yield	23°C, Type 2 Speed D	ISO 527	25	MPa

**Data should not be used for specification work**

## Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration. It is advised to process the product within maximum one year after delivery.