



# Rigidex<sup>®</sup> HD5802BM

## Product Technical Information

Polyethylene bimodal medium molecular weight copolymer

## Benefits & Features

**Rigidex<sup>®</sup> HD5802BM** is a new bimodal medium molecular weight copolymer grade supplied in pellet form. It has an outstanding stiffness and environmental stress crack resistance (ESCR) balance making it ideal for use in a wide range of blow moulding applications. The grade is particularly well suited to chemical and detergent packaging as the exceptional ESCR can allow for significant bottle weight reduction.

- High rigidity
- Outstanding environmental stress cracking resistance
- High impact strength
- Easy processing

## Applications

- Blow moulded containers up to 10 liters capacity for packaging chemicals, many household products, oils and foodstuffs
- Sheet extrusion

Properties	Conditions	Test Methods	Values	Units
<b>Physical</b>				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	0.3	g/10min
Density		ISO 1183-1 & ISO 1872-1	958	kg/m <sup>3</sup>
<b>Mechanical</b>				
Tensile Strength at Yield	23°C, Type 2 Speed D	ISO 527	28	MPa
Elongation at break	23°C, Type 2 Speed D	ISO 527	>300	%
Flexural Modulus	23°C at 100 mm/min	ISO 178	1200	MPa
Charpy Impact Strength	23°C	ISO 179	12	KJ/m <sup>2</sup>
BTT stress crack resistance	F50 at 50°C, 100% concentration	ASTM D 1693	>200	hours
<b>Data should not be used for specification work</b>				

## 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.