



RIGIDEX[®] HD5802BM-R

Product Technical Information

Polyethylene bimodal medium molecular weight copolymer

Benefits & Features

RIGIDEX[®] HD5802BM-R 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
- Blow moulded containers for the packaging of medical and pharmaceutical applications

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	0.3	g/10min
Physical				
Density		ISO 1183-1 & ISO 1872-1	956.5	kg/m ³
Mechanical				
Tensile Strength at Yield	23°C, 50 mm/min	ISO 527-1,-2	27	MPa
Tensile Strain at Break	23°C, 50 mm/min	ISO 527-1,-2	>300	%
Flexural Modulus	23°C at 100 mm/min	ISO 178	1150	MPa
Charpy Notched Impact Strength	+23°C, method 1eA	ISO 179-1	12 ⁽¹⁾	kJ/m ²
BTT stress crack resistance	F50 at 50°C, 100% concentration	ASTM D 1693	>200	h

Data should not be used for specification work

⁽¹⁾ No total failure

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.