

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



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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.

Regulatory Information

The product and uses described herein may be subject to specific requirements or limitations for use in certain applications like food contact, drinking water or medical devices. Further information may be obtained from the website www.ineos.com where a specific Regulatory Certificate is available for each grade under the heading "SDS & Regulatory Certificate".

Unless specifically indicated, the product mentioned herein is not suitable for applications in the medical or pharmaceutical sectors.

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 Safety Data Sheet (SDS) that may be obtained from the website www.ineos.com. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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