



RIGIDEX[®] HM5510BM

Product Technical Information

RIGIDEX[®] HM5510BM is a bimodal high molecular weight grade supplied in pellet form for medium and large blow moulding applications with enhanced stress-crack resistance and stiffness..

Benefits & Features

- Very high environmental stress crack resistance
- High rigidity
- High melt strength
- High impact strength

Applications

- High performance blow moulded containers typically of 1-60 litres capacity for packaging aggressive products.
- Robust industrial and technical mouldings.

Properties	Conditions	Test Methods	Values	Units
Physical				
Density ISO 1872-1	23°C	ISO 1183-1	954	kg/m ³
Rheological				
Melt Flow Rate	190°C/21.6 kg	ISO 1133-1	9.5	g/10min
Mechanical				
Flexural Modulus	23°C	ISO 178	1250	MPa
Tensile Strength at Yield	23°C, 50 mm/min	ISO 527-1,-2	29	MPa
Tensile Strain at Break	23°C, 50 mm/min	ISO 527-1,-2	>500	%
Charpy Notched Impact Strength	-30°C, method 1eA	ISO 179-1	8 ⁽¹⁾	kJ/m ²
Stress crack resistance FNCT	9 MPa, 50°C	ISO 16770	40	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.