



RIGIDEX[®] HM5060XA

Product Technical Information

RIGIDEX[®] HM5060XA is a high molecular weight grade supplied with an optimum blend of properties for the production of medium-large blow moulded articles

Benefits & Features

- Enhanced environmental stress crack resistance
- Very high chemical resistance
- High impact strength
- Good rigidity
- Excellent processability on a wide range of blow moulding equipment

Applications

High performance blow moulded containers typically 5-150 litres capacity for packaging aggressive products, especially where approvals are required to UN recommendations for Dangerous Goods and RID/ADR Compatibility testing

Properties	Conditions	Test Methods	Values	Units
Physical				
Density ISO 1872-1	23°C	ISO 1183-1	949.5	kg/m ³
Rheological				
Melt Flow Rate	190°C/21.6 kg	ISO 1133-1	6.0	g/10min
Mechanical				
Flexural Modulus	23°C	ISO 178	1000	MPa
Tensile Strength at Yield	23°C, 50 mm/min	ISO 527-1,-2	26	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	15 ⁽¹⁾	kJ/m ²
Stress crack resistance BTT	10% Igepal, 50°C	ASTM D1693-B	500	h
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.