



# RIGIDEX<sup>®</sup> HM4560UA

## Product Technical Information

**RIGIDEX<sup>®</sup> HM4560UA** is a high molecular weight ultra-violet stabilised copolymer grade supplied in pellet form for large blow moulding applications.

## Benefits & Features

- High melt strength
- Excellent environmental stress crack resistance
- Excellent chemical resistance
- High impact strength
- Excellent weathering resistance

## Applications

- Blow moulded containers up to 5000 litres which require a combination of excellent environmental stress crack resistance, chemical resistance and resistance to UV degradation

Properties	Conditions	Test Methods	Values	Units
<b>Physical</b>				
Density ISO 1872-1	23°C	ISO 1183-1	949.5	kg/m <sup>3</sup>
<b>Rheological</b>				
Melt Flow Rate	190°C/21.6 kg	ISO 1133-1	6.0	g/10min
<b>Mechanical</b>				
Flexural Modulus	23°C	ISO 178	950	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	17 <sup>(1)</sup>	kJ/m <sup>2</sup>
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**

<sup>(1)</sup> 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.