

Rigidex® HM4560UA

Product Technical Information

Rigidex® HM4560UA is a high molecular weight ultra-violet stabilised copolymer grade supplied in pellet form for large blow moulding applications.

Typical 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

Benefits and Features

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

Properties	Test Methods	Values	Units
Physical			
Density (annealed)	ISO 1872/1-1993	948	kg/m ³
Melt Flow Rate 21.6 kg load	ISO 1133-1997 cond. G	6.0	g/10min
Mechanical			
Tensile Strength @ yield (23°C, Type 2 Speed D)	ISO 527-2:1996	23	MPa
Elongation @ break (23°C, Type 2 Speed D)	ISO 527-2:1996	> 300	%
Flexural Modulus (23°C @ 100 mm/min)	ISO 178-1997	900	MPa
Charpy Impact Strength	ISO 179-1982	no break	kJ/m ²
BTT stress crack resistance:			
- 100% Adinol 50°C	ASTM 1693-97a	> 1000	hours
- 10% Adinol 50°C	ASTM 1693-97a	> 1000	hours
Bottle stress crack resistance (60°C)	INEOS Method	> 300	hours

The values given are typical values measured on the product. These values should not be considered as specification



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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an email to psnohreg@innovene.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

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

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