

# Rigidex® HM4560UA

High Density (HMW) Polyethylene

INEOS Olefins & Polymers Europe

## Message:

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

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Good Chemical Resistance		
	Good Melt Strength		
	Good UV Resistance		
	Good Weather Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Blow Molding Applications		
	Blown Containers		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm <sup>3</sup>	ISO 1872
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693A
50°C, 10% Adinol	> 1000	hr	
50°C, 100% Adinol	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Yield, 23°C)	23.0	MPa	ISO 527-2/2
Tensile Strain <sup>2</sup> (Break, 23°C)	> 300	%	ISO 527-2/2

Flexural Modulus <sup>3</sup> (23°C)	900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	No Break		ISO 179
Additional Information	Nominal Value	Unit	Test Method
Bottle Stress Crack Resistance (60°C)	> 12.5	day	Internal Method
NOTE			
1.	Speed D		
2.	Speed D		
3.	100 mm/min		

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#### Recommended distributors for this material

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