

Rigidex® HM5060XA

High Density (HMW) Polyethylene

INEOS Olefins & Polymers Europe

Message:

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

Typical 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

Benefits and 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

General Information			
Features	Good Chemical Resistance		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Molecular Weight		
	Medium Rigidity		
Uses	Blow Molding Applications		
	Blown Containers		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	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	500	hr	
50°C, 100% Adinol	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield, 23°C)	26.0	MPa	ISO 527-2/2
Tensile Strain ² (Break, 23°C)	> 500	%	ISO 527-2/2
Flexural Modulus ³ (23°C)	1000	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)	8.3	day	Internal Method
NOTE			
1.	Speed D		
2.	Speed D		
3.	100 mm/min		

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