

Rigidex® HM5411EA

High Density (HMW) Polyethylene

INEOS Olefins & Polymers Europe

Message:

Rigidex® HM5411EA is a high molecular weight copolymer grade supplied in pellet form for medium and large blow moulding applications where a combination of high environmental stress cracking resistance and good rigidity is required.

Typical applications

High performance blow moulded containers typically of 1-60 litres capacity for packaging aggressive products

Robust industrial and technical mouldings

Benefits and Features

Very high environmental stress crack resistance

Good rigidity

High melt strength

High impact strength

General Information			
Features	Copolymer		
	Good Melt Strength		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Molecular Weight		
	Medium Rigidity		
Uses	Blow Molding Applications		
	Blown Containers		
	Industrial Applications		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ISO 1872
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	10	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693A
50°C, 10% Adinol	130	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)	> 300	%	ISO 527-2/2
Flexural Modulus ³ (23°C)	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Unnotched Impact Strength	23	kJ/m ²	ISO 179
Additional Information	Nominal Value	Unit	Test Method
Bottle Stress Crack Resistance (60°C)	2.1	day	Internal Method
NOTE			
1.	Speed D		
2.	Speed D		
3.	100 mm/min		

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