

Rigidex® HD6007S

High Density (MMW) Polyethylene

INEOS Olefins & Polymers Europe

Message:

Rigidex® HD6007S is a medium molecular weight polyethylene grade supplied in pellet form for use in a wide range of blow moulding and extrusion applications.

Typical applications

Lightweight containers produced at high speeds, e.g. bottles for packaging powders, milk and chemical products which have a low environmental stress cracking activity

Benefits and Features

Very easy processing

High rigidity

Good surface finish

General Information			
Features	Good Processability		
	High Rigidity		
	Homopolymer		
Uses	Blow Molding Applications		
	Bottles		
	Containers		
	Packaging		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, BTT, F50)	20.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	30.5	MPa	ISO 527-2/2/100
Tensile Strain (Break, 23°C)	> 300	%	ISO 527-2/2/100
Flexural Modulus ¹ (23°C)	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179
Additional Information	Nominal Value	Unit	Test Method
Bottle Stress Crack Resistance (60°C)	1.0	hr	Internal Method

NOTE

1. 100 mm/min

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