

Rigidex® HD5802BM

High Density (MMW) Polyethylene

INEOS Olefins & Polymers Europe

Message:

Rigidex® HD5802BM is a new bimodal medium molecular weight copolymer grade supplied in pellet form. It has an outstanding stiffness and environmental stress crack resistance (ESCR) balance making it ideal for use in a wide range of blow moulding applications. The grade is particularly well suited to chemical and detergent packaging as the exceptional ESCR can allow for significant bottle weight reduction.

Typical applications

Blow moulded containers up to 10 litres capacity for packaging chemicals, many household products, oils and foodstuffs

Sheet extrusion

Benefits and Features

High rigidity

Outstanding environmental stress cracking resistance

High impact strength

Easy processing

General Information			
Features	Copolymer		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Rigidity		
	Medium Molecular Weight		
Uses	Blow Molding Applications		
	Blown Containers		
	Household Goods		
	Packaging		
	Sheet		
Forms	Pellets		
Processing Method	Blow Molding		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (50°C, F50)	> 200	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	28.0	MPa	ISO 527-2/2/100
Tensile Strain (Break, 23°C)	> 300	%	ISO 527-2/2/100
Flexural Modulus ² (23°C)	1200	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
NOTE			
1.	100% Concentration, BTT		
2.	100 mm/min		

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