

# Rigidex® HD5502S

High Density (MMW) Polyethylene

INEOS Olefins & Polymers Europe

## Message:

Rigidex® HD5502S is a medium molecular weight copolymer grade supplied in pellet form which has an optimum balance of properties for use in a wide range of blow moulding and extrusion applications including bottles.

### Benefits & Features

Easy processing

Good rigidity

Good environmental stress cracking resistance

Good impact strength

### Applications

Blow moulded containers up to 30 liters capacity for packaging chemicals, many household products, oils and foodstuff

Sheet

Extruded net

General Information			
Features	Copolymer		
	Good Impact Resistance		
	Good Processability		
	High Density		
	High ESCR (Stress Crack Resist.)		
	Medium Molecular Weight		
	Medium Rigidity		
Uses	Blown Containers		
	Bottles		
	Netting		
	Sheet		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, BTT, F50)	50.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Yield, 23°C)	26.0	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)	1050	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	12	kJ/m <sup>2</sup>	ISO 179
Additional Information	Nominal Value	Unit	Test Method
Bottle Stress Crack Resistance	6.0	hr	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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