



RIGIDEX[®] HD5502S

Product Technical Information

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

Properties	Conditions	Test Methods	Values	Units
Physical				
Density	23°C, conditioning ISO 17855-1	ISO 1183-1	954	kg/m ³
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	0.2	g/10min
Mechanical				
Flexural Modulus	23°C, 100 mm/min	ISO 178	1050	MPa
Tensile Strength at Yield	23°C, 50 mm/min	ISO 527-1,-2	26	MPa
Tensile Strain at Break	23°C, 50 mm/min	ISO 527-1,-2	>300	%
Charpy Notched Impact Strength	+23°C, method 1eA	ISO 179-1	12 ⁽¹⁾	kJ/m ²
Environmental Stress Cracking Resistance (BTT)	F50, 50°C, 100% concentration	ASTM D 1693	50	h
Bottle stress crack resistance		INEOS Test Method	6	h
Data should not be used for specification work				

⁽¹⁾ No total failure

Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration. It is advised to process the product within maximum one year after delivery.