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/m³
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/m²
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

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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.

Regulatory Information

The product and uses described herein may be subject to specific requirements or limitations for use in certain applications like food contact, drinking water or medical devices. Further information may be obtained from the website www.ineos.com where a specific Regulatory Certificate is available for each grade under the heading "SDS & Regulatory Certificate".

Unless specifically indicated, the product mentioned herein is not suitable for applications in the medical or pharmaceutical sectors.

Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Safety Data Sheet (SDS) that may be obtained from the website www.ineos.com. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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