



RIGIDEX[®] HD5050EA

Product Technical Information

RIGIDEX[®] HD5050EA is a high density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection and compression moulding applications requiring high environmental stress cracking resistance.

Benefits & Features

- Good environmental stress cracking resistance
- High impact strength
- Low warpage
- Slip agent free grade

Applications

- Caps & closures – non beverages
- Beverages over-caps
- Technical parts
- Bins
- Crates, boxes, household items

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16kg	ISO 1133-1	4	g/10min
Physical				
Density ISO 1872-1	23°C	ISO 1183-1	950	kg/m ³
Mechanical				
Tensile Modulus	23°C, 1 mm/min	ISO 527-2	1100	MPa
Tensile Strength at Yield	23°C	ISO 527-1,-2	25	MPa
Charpy Impact Strength, notched	23°C	ISO 179-1/1eA	5.5	kJ/m ²
Environmental Stress Cracking Resistance (ESCR)	23°C	ASTM D1693	170	h
Data should not be used for specification work				

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.