

Rigidex® HD5130EA

High Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

Rigidex® HD5130EA is a high density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection and compression moulding applications requiring very high environmental stress cracking resistance.

Typical applications

Caps & closures - non beverages such as chemicals, detergents, eau de javel

Technical parts

Bins

Benefits and Features

Very high environmental stress cracking resistance

Very high impact strength

Low warpage

Slip agent free grade

General Information			
Features	Low warpage		
	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	Impact resistance, high		
	Narrow molecular weight distribution		
Uses	Electrical/Electronic Applications		
	Shield		
	Container		
	Shell		
Agency Ratings	EU 94/62/EC		
Forms	Particle		
Processing Method	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.4	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (23°C)	250	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2/1B
Tensile Stress (Yield)	27.0	MPa	ISO 527-2/1B
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179

Additional Information

The value listed as Density ISO 1183, was tested in accordance with ISO 1872.

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