



INEOS

Olefins & Polymers Europe

Your partner in

HDPE  
INJECTION-  
MOULDING

Proven solutions

INEOS

THE WORD FOR CHEMICALS

We offer a full range of high value polyolefins solutions for all kind of market applications.

INEOS Olefins & Polymers Europe



## HDPE Injection-Moulding

### Product information

INEOS Olefins & Polymers Europe offers a wide range of high density polyethylene grades suitable for the injection-moulding of caps & closures (\*), pails, pallets & pallet boxes, trash bins, wheeled bins, sealant & adhesive cartridges and street furniture.

Many of the RIGIDEX® HDPE grades are formulated with UV protection making them suitable for outdoor applications.

(\* ) Specific Caps & Closures HDPE grades with guaranteed organoleptic properties (ELTEX® range) are available upon request



## HDPE Injection-Moulding

### Benefits and features

The HDPE grades, produced by INEOS O&P Europe using proprietary technologies, offer the following properties:

- / High stiffness
- / Excellent impact resistance at low temperature
- / Very good environmental stress cracking resistance (ESCR)
- / Specific grades have a bimodal structure which results in a market leading balance of impact resistance, ESCR and stiffness
- / Extensive range of fluidities (MFR from 2,4 to 26 g/10 min) allowing for the moulding of articles ranging from small thin walled parts to very large containers such as pallet-boxes or wheeled bins
- / Whilst an extensive range is offered, INEOS O&P Europe is always open to new development ideas within a very broad density envelope (935 to 965 kg/m<sup>3</sup>) with MFRs of up to 40 g/10 min



# HDPE Injection-Moulding

## Product characteristics

Properties Conditions Methods Units	Melt Flow Rate 190° C, 2.16kg ISO 1133-1 g/10 min	Density 23° C ISO 1183-1 kg/m <sup>3</sup>	Tensile Modulus (1) 23° C ISO 527-2 MPa	Charpy Impact (2) 23° C ISO 179-1 kJ/m <sup>2</sup>	UV Protection
HD4620BM (3)	2	946	950	9	
HD5050EA	4	950	1100	5.5	
HD5050UA	4	950	1100	5.5	X
HD6030BM (3)	4	960	1500	5	
HD5450UA	4.7	953.5	1000	5	X
HD6070EA	7.6	960	1500	4	
HD6070UA	7.6	960	1500	4	X
HD5211EA	11	951	1100	3.5	
HD5218EA	18	952	1200	3	
HD5226EA	26	953	1150	2.5	

(1) Measured on machined specimens from pressed plates

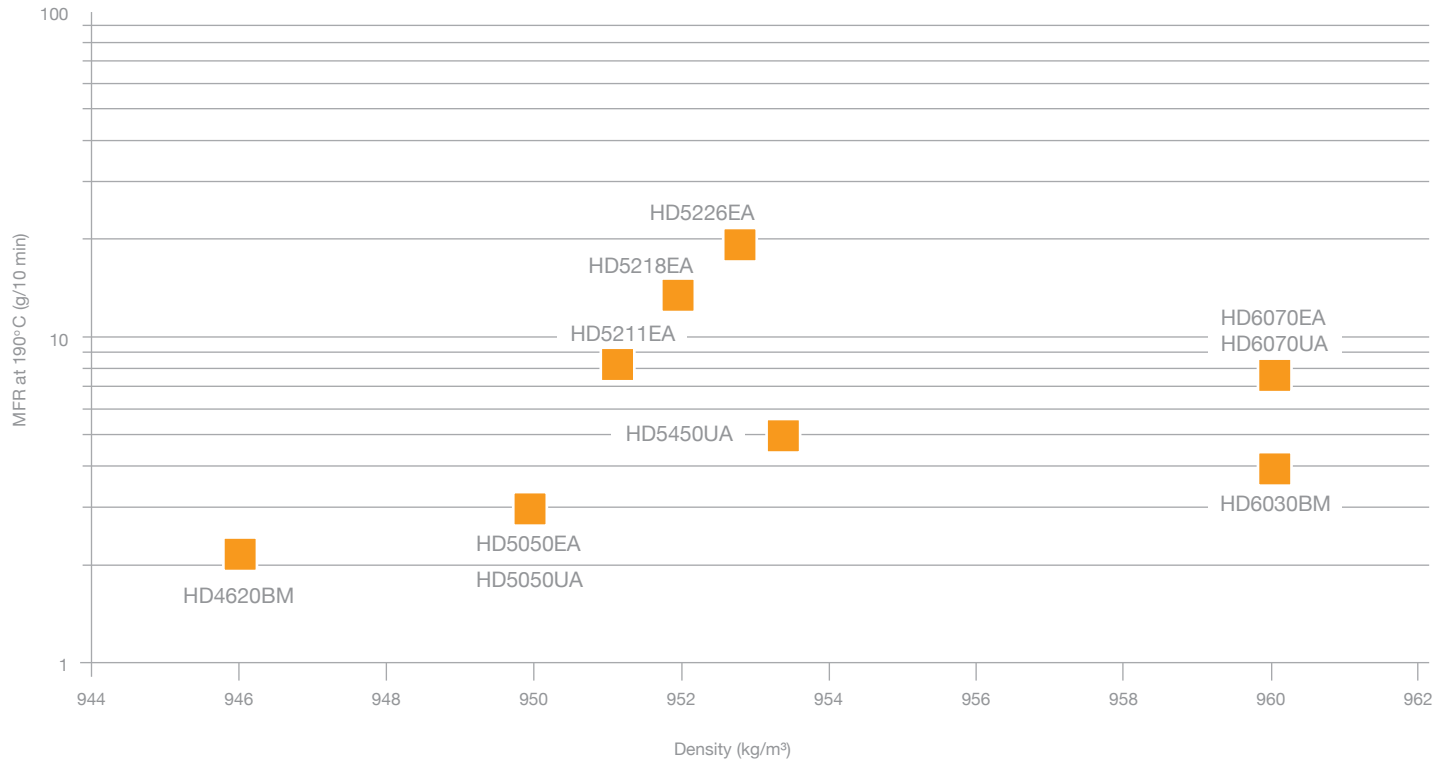
(2) Notched

(3) Bimodal grade



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## Product characteristics





## About us

INEOS is one of the world's largest chemical companies, founded in 1998. INEOS Olefins & Polymers Europe is a leading producer of olefins and polyolefins.

**INEOS Olefins & Polymers Europe** offers a full range of high value polyolefins solutions for market applications such as food and industrial packaging, pipe and automotive through dedicated sales, and technical service teams.

INEOS is a safe and environmentally responsible company. We are engaged in developing our sustainable agenda to improve our operations and to implement sustainable solutions for our customers. This includes products that offer lightweighting, energy efficiency, durability (extended lifetime) or conservation of resources. We care.

**ECC EXCELLENCE**  
Our sustainable journey

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