

INEOS

Olefins & Polymers Europe

Your partner in

HDPE
INJECTION-
MOULDING

Proven solutions

INEOS

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



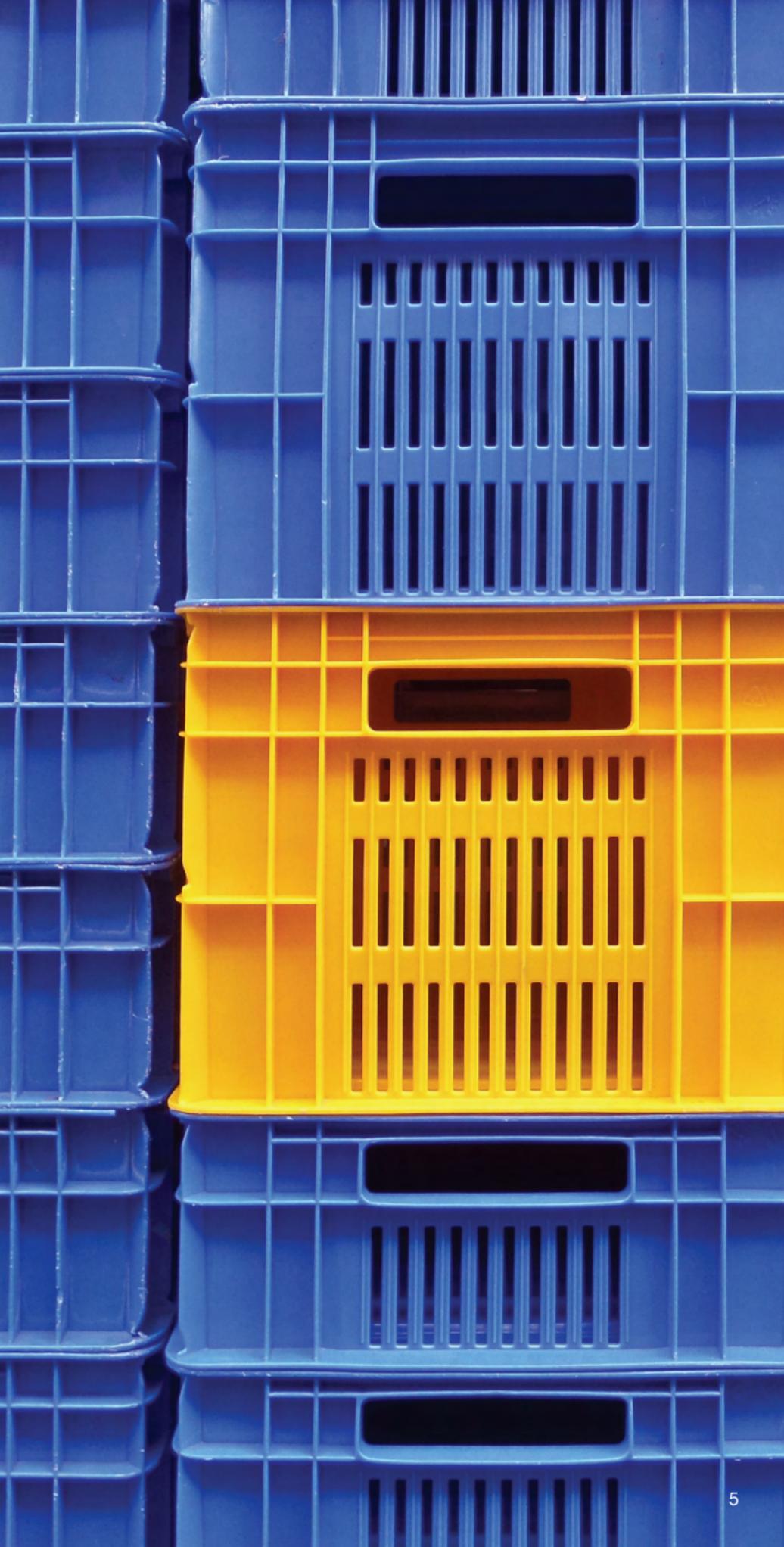
HDPE Injection-Moulding

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/m³) 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 ³	Tensile Modulus (1) 23° C ISO 527-2 MPa	Charpy Impact (2) 23° C ISO 179-1 kJ/m ²	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

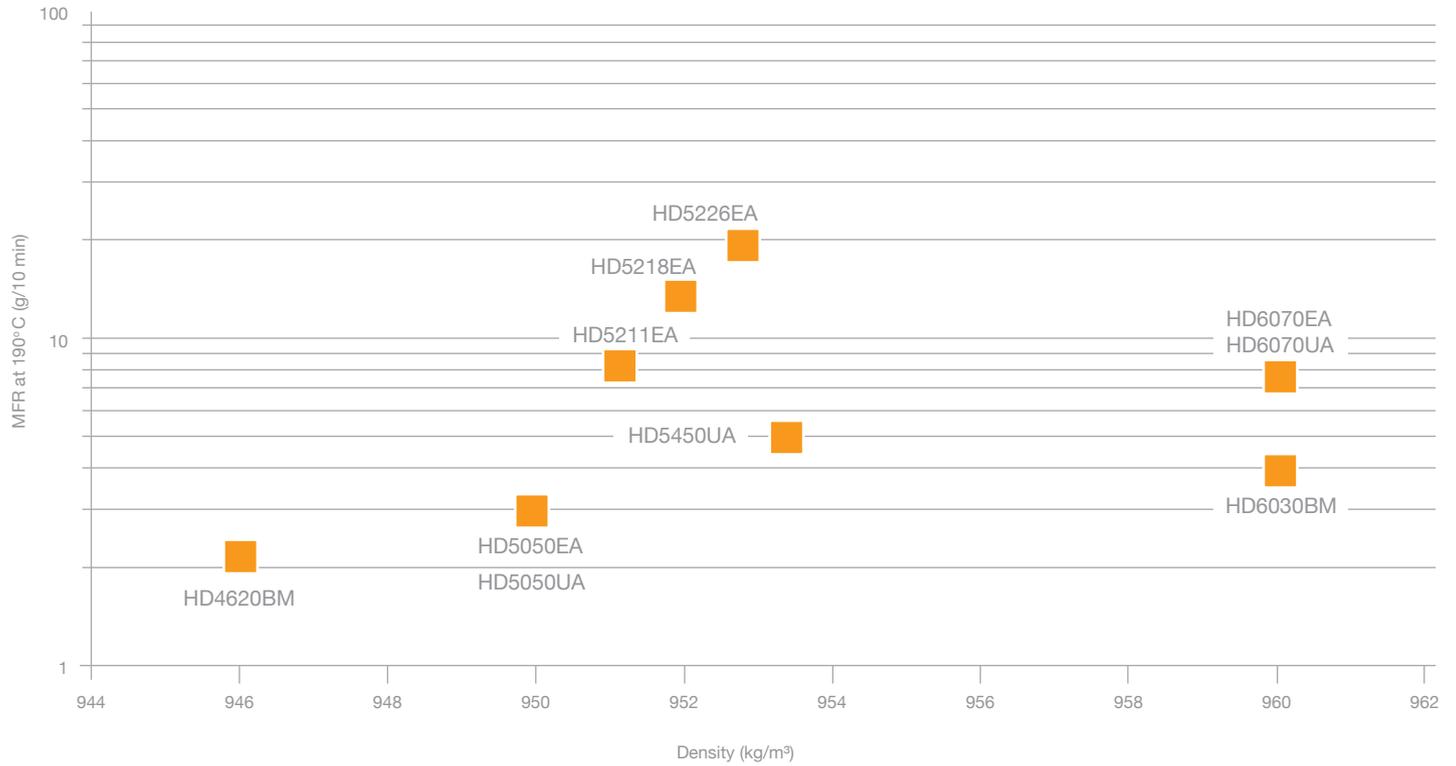
(2) Notched

(3) Bimodal grade



HDPE Injection-Moulding

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.



EXCLUSION OF LIABILITY: The information contained in this brochure, as at the date of publication, is accurate to the best knowledge and belief of INEOS Europe AG and its affiliates («INEOS») and any further information or advice provided by INEOS relating to INEOS or third party materials is also given in good faith. INEOS makes no representations or warranties, express or implied, regarding the completeness, quality or accuracy of this or any other information and any decisions you make based on the information contained in this brochure or otherwise provided by INEOS, including as to the suitability or fitness of materials for a particular purpose, are your sole responsibility. The information contained here is subject to change, and your INEOS representative will be happy to help in providing you with the latest version of this information. Please otherwise note that we advise you regularly check the validity of the information you may have already downloaded from our website. Except as required by mandatory law or as expressly provided in INEOS's standard terms and conditions of sale, INEOS accepts no liability whatsoever arising from the use of information supplied by this brochure or otherwise, or from the application, adaptation or processing of the products described herein, the use of other materials in lieu of INEOS materials or the use of INEOS materials in conjunction with such other materials. Rigidex®, Eltex®, Eltex P®, Eltex PF®, Rigidex P®, Innovene, INEOS and the breakthrough mark are all trademarks of the INEOS group, used with its permission, and are registered in a number of countries.





Please visit our website at www.ineos.com
or contact us at ineospofcsc@ineos.com

© INEOS Olefins & Polymers Europe, September 2019