INEOS Olefins & Polymers Europe

Your partner in

ELTEX® CAP504HR

Higher rigidity for further lightweighting



The latest Superstress grade with enhanced rigidity and excellent ESCR

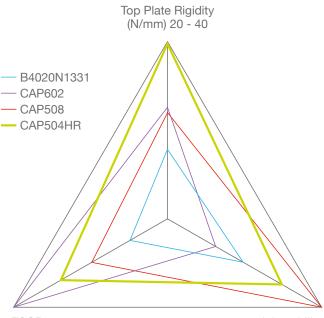
INEOS Olefins & Polymers Europe

ELTEX[®] Superstress[™] CAP504HR Series

Product features

- / High rigidity
- / Excellent stress cracking resistance
- / Good injectability
- / Improved rigidity/ESCR/injectability balance
- / Excellent quality controlled organoleptic properties
- / Satisfying the most stringent brand owners NIAS requirements

This new Superstress[™] grade is intended for the production of last generation lightweight screw caps for the packaging of carbonated beverages.



ESCR on cap (h) 0 - 65 Injectability

Benefits for the customers

The newly developed ELTEX[®] Superstress[™] CAP504HR produced with INEOS proprietary supported catalyst and process offers the following advantages:

- / Enhanced cap rigidity at same weight inducing:
 - less doming
 - less closure ovalization
 - higher strip torque

/ Lightweighting potential

as a consequence of higher rigidity and excellent ESCR

/ Good processing performances

/ Innovative antioxidant formulation without critical Non Intentionally Added Substances

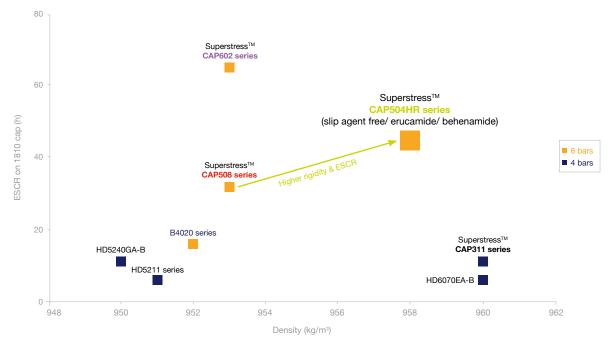


Product Characteristics Comparison with current INEOS HDPE Grades for carbonated Drinks

Properties	Unit	Standard	CAP504HR	B4020N1331	CAP602	CAP508
Density	kg/m³	ISO 1183-1 & 1872-1	958	952	953	953
MI 190°C/2.16 kg	g/10 min	ISO 1133-1	0.6	2.2	0.8	1.8
HLMI 190°C/21.6 kg	g/10 min	ISO 1133-1	52	77	40	94
Top Plate Rigidity	N/mm	INEOS	38	27.5	32.5	32
ESCR on cap (6 bar/40°C/10% Igepal)	h	INEOS	47	16	65	32
Max injection pressure (on industrial caps injection machine)	bar	-	1660	1770	1860	1510

Data not to be considered as specification

ESCR – Density



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.



© Photos: archive, dreamstime.com, istockphoto.com

Please visit our website at **www.ineos.com** or contact us at **ineospofcsc@ineos.com** © INEOS Olefins & Polymers Europe, September 2019