



**TotalEnergies**

Refining & Chemicals  
Polymers

## Polyethylene HD 6042

Technical data sheet  
High Density Polyethylene CAPS & CLOSURES  
Produced in Europe

### Description

HD 6042 is a high density polyethylene (HDPE) offering a high stiffness and enhanced Environmental Stress Crack Resistance (ESCR). Its processability is similar to a MFR 8 standard HDPE grade.

It has been specifically designed for the manufacture of caps and closures requiring high processability, high stiffness, excellent tearing properties such as for tethered caps. It also shows an excellent behavior to living hinge constraints.

HD 6042 is a pellet grade and contains antioxidants.

### Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	g/cm <sup>3</sup>	0.960
Melt Flow Rate (190°C/2.16 kg)	ISO 1133/D	g/10 min	4
Tensile modulus	ISO 527	MPa	1400
Tensile strength at yield	ISO 527	MPa	30
ESCR AntaroX 100% (50 °C)	ASTM D 1693	hrs	F <sub>50</sub> = 14
Melting temperature	ISO 11357	°C	133

(\*) Data not intended for specification purposes

### Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: [www.polymers.totalenergies.com](http://www.polymers.totalenergies.com).

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. These are typical values not to be construed as specification limits. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within TotalEnergies Petrochemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.