



TotalEnergies

Refining & Chemicals
Polymers

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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 ³	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 ₅₀ = 14
Melting temperature	ISO 11357	°C	133

(*) Data not intended for specification purposes

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