

SABIC® HDPE CC2056

HIGH DENSITY POLYETHYLENE

DESCRIPTION

SABIC® HDPE CC2056 is a high density polyethylene copolymer injection molding grade. Its narrow molecular weight distribution and high flow results in low warpage, good rigidity, good gloss and fast molding cycles.

SABIC® HDPE CC2056 is typically used for caps and closures applications and thin wall articles.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20220705

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	20	dg/min	ISO 1133
Density (1)	956	kg/m³	ISO 1183
MECHANICAL PROPERTIES (1) (2)		31	
Tensile test (3) (4)			
stress at yield	28	MPa	ISO 527-2
stress at break	15	MPa	ISO 527-2
strain at break	200	%	ISO 527-2
tensile modulus	1200	MPa	ISO 527-2
Izod impact notched			
at 23 °C	3	kJ/m²	ISO 180/A
Hardness Shore D	62	-	ISO 868
ESCR on Caps ⁽⁵⁾	10	h	SABIC method
THERMAL PROPERTIES			
Heat deflection temperature (1) (2)			
at 0.45 MPa (HDT/B)	85	°C	ISO 75-2
Vicat Softening Temperature (1) (2)			
at 10 N (VST/A)	128	°C	ISO 306
DSC test			
melting point	132	°C	ISO 11357-3
enthalpy change	210	J/g	ISO 11357-3

⁽¹⁾ Compression moulding of test specimen according to ISO 1872-2 $\,$

⁽²⁾ Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours

⁽³⁾ Speed of testing: 50 mm/min

⁽⁴⁾ Test specimen according to ISO 527-2 type 1BA, thickness 2 mm $\,$

⁽⁵⁾ Determined in 10% Igepal CO-630 at 40 °C, 6 bar internal water pressure, thickness 1 mm



ENVIRONMENT AND RECYCLING

The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

STORAGE AND HANDLING

Polyethylenes resins (in pelletised or powder form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in colour changes, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

DISCLAIMER

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