

SABIC® HDPE T5E01BN

HIGH DENSITY POLYETHYLENE FROM TRUCIRCLE™ PORTFOLIO
REGION EUROPE

DESCRIPTION

SABIC® HDPE T5E01BN Natural is a polyethylene resin, which is formulated with 50% post-consumer recycled plastics. The grade is part of SABIC's TRUCIRCLE™ portfolio and services.

It can be used for blow molding of consumer packaging up to 5 l for household and industrial chemicals, such as detergents, cleaners, shampoos and cosmetics.

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

TYPICAL PROPERTY VALUES

Revision 20221027

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.2	dg/min	ISO 1133
at 190 °C and 5 kg	0.8	dg/min	ISO 1133
at 190 °C and 21.6 kg	25	dg/min	ISO 1133
Density ⁽¹⁾	960	kg/m ³	ISO 1183
MECHANICAL PROPERTIES ^{(1) (2)}			
Izod impact notched			
at 23 °C	11	kJ/m ²	ISO 180/A
ESCR (10% Igepal CO-630), F50	40	h	ASTM D1693B

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

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

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.

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