

**TYPICAL DATA SHEET***

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HIGH DENSITY POLYETHYLENE

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HD5030SAIRAN/TABRIZ/TABRIZPETROCHEMICAL
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HD5030SA is high density polyethylene copolymer containing butene-1(C4) as co monomer with medium content of slip agent additive with based on INEOS's gas phase technology.

Features: HD5030SA have the following characteristics: good impact strength, excellent surface finish and organoleptic characteristic. This grade has food contact approval.

Processing Method: injection molding

Application: caps and closures for packaging with free torque advantage.

Description

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX (190°C 2.16KG)	g/10min	ASTM D-1238	1.8
DENSITY	gr/cm ³	ASTM D-1505	0.948
VICAT SOFTENING POINT(120°C/hr 1kg)	°C	ASTM D-1525	112
TENSILE STRESS AT YEILD	MPa	ASTM D-638	20
TENSILE STRESS AT BREAK	MPa	ASTM D-638	24
ELONGATION AT YEILD	%	ASTM D-638	8
ELONGATION AT BREAK	%	ASTM D-638	1100
HARDNESS (SHORE D 3Sec)	-	ISO868-1978 TYPE D	60
CHARPY IMPACT(NOTCHED)	KJ/m ²	ASTM D-6110	15
FLEXURAL MODULUS	MPa	ASTM D-790	950
ESCR (IGEPAL10% F50,50°C)	hr	ASTM D-1693	80
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

Grade Suffix (Additives Indication): SA: GENERAL ANTIOXIDANT WITH SLIP AGENT

Product Data Sheet: BG-HD-5030

High Density PE	Injection Molding	
HDPE: BG-HD-5030	Density: 0.948-0.952	MFI: 2.7-3.3
Feature: - Co-monomer: Butene-1 - High Impact Strength - High Elongation - High Stress Cracking Resistance	Application: - Injection Molding Grade for Caps & Closure - Blending - Lamination	Additive: - UV Stabilizer* - Antioxidants

❖ **Material properties** (this data are typical values and shall not be construed as product specifications.)

Resin Properties	Unit	Condition	Typical Value	Test Method
Melt Flow Rate (MFR)	g/10 min	190°C/2.16 kg	2.7-3.3	ASTM D1238
Density	g/cm ³	23°C	0.948-0.952	ASTM D1505
Physical Properties	unit	Condition	Typical value	Test method
F/E Ratio	—	—	26±2	ASTM D1238
Vicat	°C	—	132	ASTM D1525
Tensile Stress @Yield	Mpa	—	28	ASTM D638
Tensile Strain @Yield	%	—	8	ASTM D638
Flexural Modulus	Mpa	—	1100	ASTM D790
Izod Impact Resistance	J/m	Notched Method	127	ASTM D256
ESCR (IGEPAL 10%)	HR	(F50, 50°C)	>500	ASTM D1693
Contamination	%	—	<20	BASELL MTM-17064 E

* Guaranteed items: MFR, Density & F/E Ratio.

* Anti-Uv Stabilizer will be added to the polymer according to the customer request.

* The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

* It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers' particular purposes. The customer is responsible for the appropriate, safe & legal use, processing and handling of all product(s) purchased from us.

* Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particularly, warranty of merchantability or fitness for a particular purpose.