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BAKHTAR PETROCHEMICAL COMPANY

HIGH-DENSITY POLYETHYLENE HDPE BG-HD-52B18

HDPE HD52B18UV is a high-flow, UV-stabilized polyethylene copolymer for injection molding. It balances high rigidity with good impact strength, making it ideal for durable thin-walled containers, outdoor products, and industrial components requiring excellent processability and weather resistance.

Producer	Characteristic Properties	Applications	Additive
BAKHTAR	Comonomer Butene-1 (C4) Easy Processing High Strength	injection-molded products Outdoor applications Thin-walled foam containers	Acid Scavenger Antioxidants -Lubricants UV Stabilizer

Typical Properties

Resin Properties	Unit	Typical Value	Test Method
Melt Flow Rate (MFR) 190°C/2.16 kg	g/10 min	15-21	ASTM D1238-10
Density	g/cm ³	0.950-0.954	ASTM D1505-10
Bulk Density	g/cm ³	0.60-0.63	-
Flexural Modulus	MPa	1200	ASTM D790-10
IZOD Impact Resistance	J/m	40	ASTM D256-02
Tensile Stress@Yield	Mpa	28	ASTM D882-10
Tensile Stress@Break	Mpa	14	ASTM D882-10
Elongation@Break	%	400	ASTM D882-10
Vicat	%	131	ASTM D882-10
Ti Content	Ppm wt	<5=(2)	MTM15636
Yellowness Index	-	<30	ASTM D1238

- Guaranteed items: MFR & Density.
- 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.