INDORAMA

Indorama Eleme Petrochemicals Ltd.

TECHNICAL DATA SHEET

INDORAMA- HDPE **HBG00346**

HIGH DENSITY POLYETHYLENE FOR BLOW MOULDING APPLICATION

HBG00346 is High Density Polyethylene Resin manufactured by IEPL using solution polymerization technique, "SCLAIRTECH" technology by Nova Chemicals. The resin offers broad molecular weight distribution, high impact strength and environmental stress crack resistance (ESCR). The grade is designed to produce bottles, containers, and technical hollow articles up to 5 liters. It can be easily processed on normal polyethylene blow moulding machines, using processing temperature between 170 and 200 ^{O}C.

TYPICAL CHARACTERISTICS:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Index (190^{o}C / 2.16 Kg)	ASTM D 1238	gm/10 min.	0.30
Density	ASTM D 792	gm/cm^3	0.946
Tensile Strength at Yield	ASTM D 638	Mpa	20
Elongation at Break	ASTM D 638	%	580
Flexural Modulus	ASTM D 790	Mpa	650
Vicat Softening Point	ASTM D 1525	^{o}C	128
Hardness	ASTM D 2240	Shore D	63

Note- Above values are not to be construed as specifications.
- Mechanical Properties are on Injection Moulded Specimen

PRODUCT BENEFITS	APPLICATIONS
• Very good ESCR properties • Good processability • Good impact strength & stiffness • Good melt strength	• Toys • Bottles for: - Detergents - Softeners - Mineral oil & food products - Car care products - Cosmetics

PACKAGING: HBG00346 is available in natural colour, pellets form in 25 Kg bags made of woven fabric.

FOOD CONTACT APPLICATIONS: This grade meets with the requirements of FDA: CFR title 21, 177.1520 and EU regulation 10/2011 for food contact application when used unmodified and processed according to good manufacturing practices.

SAFETY

The Material Safety Data Sheet (MSDS) contains information regarding health, safety, and waste considerations for all IEPL High Density Polyethylene grades. We urge each customer or recipient to study the MSDS carefully to become aware of and understand the hazards associated with the product.

STORAGE

Material bags should be stored in dry and closed conditions to avoid the moisture contamination and at temperature below 40^{O}C. It should be protected from direct sunlight/UV light to prevent the material degradation. It is generally recommended to convert all material latest within 6 months of production. After a storage period of more than 3 months drying of material is recommended as standard practice.

DISCLAIMER

The data, information and suggestions given herein are purely as a guide. IEPL undertakes no responsibility either for the results derived from their adoption or for possible positions in apparent contrast with existing patent rights. In view of the many factors that may affect processing and application, these data do not reveal the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose of the products made with or based on the information in this publication.

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