INDORAMA

Indorama Eleme Petrochemicals Ltd.

TECHNICAL DATA SHEET

INDORAMA- HDPE **NGH003IG**

HIGH DENSITY POLYETHYLENE FOR INJECTION & COMPRESSION MOULDING

HGH003IG 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 for injection moulding and continuous compression moulding of beverage caps and closures.

TYPICAL CHARACTERISTICS:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Index (190°C / 2.16 Kg)	ASTM D 1238	gm/10 min.	0.30
Density	ASTM D 792	gm/cm^3	0.956
Tensile Strength at Yield	ASTM D 638	Mpa	25
Elongation at Break	ASTM D 638	%	550
Flexural Modulus	ASTM D 790	Mpa	800
Vicat Softening Point	ASTM D 1525	°C	128
Hardness	ASTM D 2240	Shore D	69

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

PRODUCT BENEFITS	APPLICATIONS
• Very good stiffness • Good processability • Very good resistance to chemicals • Very good ESCR	• Beverage caps & closures

PACKAGING: NGH003IG 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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