

TECHNICAL DATA SHEET

INDORAMA- HDPE

NGH045IU

HIGH DENSITY POLYETHYLENE FOR INJECTION MOULDING

NGH045IU is High Density Polyethylene Resin manufactured by IEPL using solution polymerization technique, “SCLAIRTECH” technology by Nova Chemicals. This resin offers medium molecular weight with narrow molecular weight distribution and exhibit very good processibility, Impact strength and ESCR. The grade is stabilized with appropriate quantity of UV stabilizer for long term stability in the outdoor weather of moulded parts like containers, Industrial parts, Dustbins, etc.

TYPICAL CHARACTERISTICS:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Index (190°C / 2.16 Kg)	ASTM D 1238	gm/10 min.	4.5
Density	ASTM D 792	gm/cm ³	0.956
Tensile Strength at Yield	ASTM D 638	Mpa	29
Elongation at Break	ASTM D 638	%	850
Flexural Modulus	ASTM D 790	Mpa	900
Izod Impact strength	ASTM D 256	J/m	70
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
<ul style="list-style-type: none"> • Very good impact strength • Good gloss and surface finish • Good dimensional stability • Very good escr properties • Low warpage 	<ul style="list-style-type: none"> • Containers • Pails and dustbins • Industrial parts • Bottle caps for mineral water

PACKAGING: NGH045IU 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.

IEPL’s commitment to Quality, Health, Safety and Environment is evident from the fact that it is certified with all three ISO Standards ISO 9001, 14001 and 45001.

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°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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