

TECHNICAL DATA SHEET**INDORAMA- LINEAR****NGL045RG****LINEAR LOW DENSITY POLYETHYLENE FOR ROTO MOULDING**

NGL045RG is a Butene Co-monomer based Linear Low Density Polyethylene (LLDPE) Resin manufactured by IEPL using solution polymerization technique, "SCLAIRTECH" technology by Nova Chemicals. As a copolymer it offers good toughness, impact resistance and very good environmental stress crack resistance (ESCR). This is medium density grade and designed to produce water storage tanks, milk cans and hollow articles. It can be easily processed on normal polyethylene roto moulding machines. In blending with suitable quantity of carbon black this grade can withstand continuous outdoor exposure.

TYPICAL CHARACTERISTICS:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Index (190°C / 2.16 Kg)	ASTM D 1238	gm/10 min.	4.4
Density	ASTM D 792	gm/cm ³	0.9325
Tensile Strength at Yield	ASTM D 638	Mpa	14
Elongation at Break	ASTM D 638	%	600
Flexural Modulus	ASTM D 790	Mpa	500
Izod Impact Test	ASTM D 256	J/m	200
Hardness	ASTM D 2240	Shore D	60
Vicat Softening Point	ASTM D 1525	°C	116

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">• Good processability• Very good resistance to chemicals• Good impact strength• Very good escr• Good toughness	<ul style="list-style-type: none">• Water storage tanks• Chemical tanks• Loft tanks• Road barriers• Garden slides and outdoor chairs• Bins & trash cans

PACKAGING: NGL045RG 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 Linear Low 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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