

**TECHNICAL DATA SHEET**

**INDORAMA- LINEAR**

**NGL020FG – Without Slip & Antiblock**

**LINEAR LOW DENSITY POLYETHYLENE FOR BLOWN & CAST FILM APPLICATION**

NGL020FG is a Butene Co-monomer based Liner Low Density Polyethylene (LLDPE) Resin manufactured by IEPL using solution polymerization technique, “SCLAIRTECH” technology by Nova Chemicals. The grade is designed to produce monolayer & multilayer blown film as well as cast film. It has very good clarity and tear strength.

**TYPICAL CHARACTERISTICS:**

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Index (190°C / 2.16 Kg )	ASTM D 1238	gm/10 min.	2.0
Density	ASTM D 792	gm/cm <sup>3</sup>	0.919
<b>Film Properties*</b>			
Tensile Strength at Yield (MD/TD)	ASTM D 882	Mpa	13 / 12
Ultimate Tensile Strength (MD/TD)	ASTM D 882	Mpa	29 / 25
Elongation at Break (MD/TD)	ASTM D 882	%	700 / 800
Dart Impact Test (Test Method A)	ASTM D 1709	g/μm	2.2
Tear Strength (MD/TD)	ASTM D 1922	Gf	220 / 420

Note- Above values are not to be construed as specifications.

\*Film Properties measured on 40-micron film made up with 2.5 BUR on NGL020FG

PRODUCT BENEFITS	APPLICATIONS
<ul style="list-style-type: none"> <li>• Very good optical properties</li> <li>• Good sealability and puncture resistance</li> <li>• Good cling performance</li> <li>• Lower gel count</li> <li>• Good balance of mechanical &amp; optical Properties</li> </ul>	<ul style="list-style-type: none"> <li>• Stretch cling film</li> <li>• Bubble wrap film</li> <li>• Co-extruded film</li> <li>• Surface protection film</li> <li>• Trash can liners</li> </ul>

**PACKAGING:** NGL020FG 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.

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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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