

**TECHNICAL DATA SHEET**

**INDORAMA- HDPE**

**HFG00356**

**HIGH DENSITY POLYETHYLENE FOR FILM APPLICATION**

HFG00356 is High Density Polyethylene Resin manufactured by IEPL using solution polymerization technique, “SCLAIRTECH” technology by Nova Chemicals. The resin offers medium molecular weight with broad molecular weight distribution. The grade is designed to produce high strength blown film of various thickness and can produce the film even < 10 micron. It can be easily processed on normal HDPE blown film lines, using melt temperatures between 200 and 220° C.

**TYPICAL CHARACTERISTICS:**

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Index (190°C / 2.16 Kg )	ASTM D 1238	gm/10 min.	0.3
Density	ASTM D 792	gm/cm <sup>3</sup>	0.955
<b>Film Properties*</b>			
Tensile Strength at Yield (MD/TD)	ASTM D 882	Mpa	32 / 30
Ultimate Tensile Strength (MD/TD)	ASTM D 882	Mpa	52 / 48
Elongation at Break (MD/TD)	ASTM D 882	%	700 / 800
Dart Impact Test (Test Method A)	ASTM D 1709	g/μm	1.5
Tear Strength (MD/TD)	ASTM D 1922	gf	40 / 180

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

\*Film Properties measured on 40-micron film made up with 2.8 BUR

PRODUCT BENEFITS	APPLICATIONS
<ul style="list-style-type: none"> <li>• Excellent draw down</li> <li>• Good processability</li> <li>• High melt strength</li> <li>• Good stiffness and barrier properties</li> </ul>	<ul style="list-style-type: none"> <li>• Carrier bags</li> <li>• Disposal waste bags</li> <li>• Deep freeze bags</li> <li>• Co-extruded films</li> <li>• Liners</li> </ul>

**PACKAGING:** HFG00356 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 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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