

**TECHNICAL DATA SHEET****INDORAMA- PPHP****NGP400IZ****POLYPROPYLENE HOMOPOLYMER FOR INJECTION MOULDING**

NGP400IZ is a polypropylene homopolymer resin manufactured by IEPL using bulk polymerization technique, "SPHERIPOL" Technology by Basell. The grade is recommended for use in injection moulding process where high clarity is required. The resin contains clarifier. It is an ideal material to use in making clarity containers, housewares, etc.

**TYPICAL CHARACTERISTICS:**

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Index (230°C / 2.16 Kg )	ASTM D 1238	gm/10 min.	40.0
Density at 23°C	ASTM D 792	gm/cm <sup>3</sup>	0.9
Tensile Strength at Yield	ASTM D 638	Mpa	31
Elongation at Yield	ASTM D 638	%	10
Flexural Modulus	ASTM D 790	Mpa	1400
Notched Izod Impact @ 23°C	ASTM D 256	J/m	22
Vicat Softening Point	ASTM D 1525	°C	150
Rockwell Hardness	ASTM D 785	R Scale	97
Heat Deflection Temp. 0.46 N/mm <sup>2</sup>	ASTM D 648	°C	102

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"> <li>• High Clarity</li> <li>• Good dimensional stability</li> <li>• Very good processibility</li> <li>• Good stiffness</li> </ul>	<ul style="list-style-type: none"> <li>• High clarity containers</li> <li>• Housewares</li> <li>• Thin wall containers</li> <li>• Rigid packaging</li> <li>• Multicavity moulding</li> </ul>

**PACKAGING:** NGP400IZ 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 Polypropylene Homopolymer 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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