



**GAIL (India) Ltd.**  
(A Govt. of India Undertaking)  
**Petrochemicals Marketing**

## I50A250

### High Density Polyethylene for Injection Moulding

**Application:** I50A250 is widely used for medium to large size household items. It provides excellent processability with high gloss and flow, good mechanical properties and low degree of warpage.

Property	Values*	Unit	Test Method
Melt Flow Index (I <sub>2</sub> )	25	g/10min	ASTM D1238
Density	0.952	g/cc	ASTM D1505
Tensile Strength @ yield	230	kg/cm <sup>2</sup>	ASTM D 638
Elongation @ yield	12	%	ASTM D 638
Flexural modulus	8500	kg/cm <sup>2</sup>	ASTM D790
Vicat softening point	122	°C	ASTM D1525
Shore D Hardness	61	-	ASTM D 2240
Izod Impact (Notch)	30	J/m	ASTM D 256 A
ESCR (F <sub>50</sub> )- 10% Igepal	<10	Hrs	ASTM D 1693

\* Typical characteristics of the product given purely as a guide. Mechanical properties were determined on compression molded samples.

### Processing Guidelines:

Barrel temperature: 200-270°C

Mould temperature: 25-40°C

### Regulatory Information:

Certificate is available on request.

### Packaging & Storage:

I50A180 is available in natural colour/pellet form in 25 kg strong bags made of woven fabric. The product should be stored in dry conditions at temperature below 50°C and protected from UV light.

*For any technical assistance contact:*

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The information, data and suggestions contained herein are to the best of our knowledge accurate and reliable. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user specific application.