



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

**I56A200U**  
**High Density Polyethylene for Injection Moulding**

**Product Description and Typical Applications:**

**I56A200U** has excellent processability with low degree of warpage and good mechanical properties. It is characterized by fast cycling and is especially suitable for household items like buckets, mug, toys etc. The material conforms to natural resin designation IS 7328-3B-MB-FXDE of IS 7328:2020.

| <b>Property</b> | <b>Values*</b> | <b>Unit</b> | <b>Test Method</b> |
|-----------------|----------------|-------------|--------------------|
|-----------------|----------------|-------------|--------------------|

|                                   |       |                    |                    |
|-----------------------------------|-------|--------------------|--------------------|
| Melt Flow Index (I <sub>2</sub> ) | 20    | gm/10min           | ASTM D1238         |
| Density @ 23°C                    | 0.952 | gm/cc              | ASTM D1505         |
| Tensile Strength @ Yield          | 260   | kg/cm <sup>2</sup> | ASTM D638, Type IV |
| Elongation @ Yield                | 10    | %                  | ASTM D638, Type IV |
| Flexural Modulus                  | 9000  | kg/cm <sup>2</sup> | ASTM D790          |
| Vicat Softening Point             | 123   | °C                 | ASTM D1525         |

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

**Processing Guidelines:**

Barrel temperature: 200 - 280°C

Mould temperature: 30 - 40°C

**Regulatory Information:**

Certificate is available on request.

**Packaging & Storage:**

I56A200U is available in natural colour, pellet form in 25 kg woven sacks. 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.

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