



GAIL (India) Ltd.

(A Govt. of India Undertaking)
Petrochemicals Marketing

I60U080 (UV Stabilized) High Density Polyethylene for Injection Moulding

Product Description and Typical Applications:

I60U080 is recommended for crates in outdoor applications like, soft drink, milk crates, fishing crates, helmets etc. It exhibits excellent weatherability, mechanical properties, low degree of warpage, good gloss and ESCR. The material conforms to natural resin designation IS 7328-3-MD-GXDD of IS 7328:2020.

Property	Values*	Unit	Test Method
Melt Flow Index (I ₂)	8.0	g/10min	ASTM D1238
Density @ 23°C	0.960	g/cc	ASTM D1505
Tensile Strength @ Yield	255	kg/cm ²	ASTM D638, Type IV
Elongation @ Yield	10	%	ASTM D638, Type IV
Elongation @ Break	>350	%	ASTM D638, Type IV
Flexural Modulus	9500	kg/cm ²	ASTM D790
Izod Impact Strength	70	J/m	ASTM D 256
Shore D Hardness	67	-	ASTM D2240
ESCR (10% Igepol), F ₅₀	<24	hrs	ASTM D1693
Vicat Softening Point	124	°C	ASTM D1525

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

Processing Guidelines:

Barrel temperature: 200 - 280°C

Mould temperature: 30 - 40°C

Regulatory Information:

Certificate is available on request.

Packaging & Storage:

I60U080 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:

GAIL Polymer Technology Centre, GAIL (India) Limited

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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.