

High Density Polyethylene

Injection Moulding

Product Description:

HDPE 080M60U is a High density polyethylene manufactured using Nova Chemicals' Sclairtech Solution Polymerization Technology. It is a UV Stabilized natural coloured polymer with good processability, very good mechanical properties and good dimensional stability.

BIS Designation Code for HDPE 080M60U as per IS 7328:2020 is: **IS 7328-3B-MDQ-GDD**.

Recommended Applications:

HDPE 080M60U is recommended for manufacturing injection moulded components like:

- Industrial crates
- Paint pails for Outdoor Applications

Typical Properties:

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190°C & 2.16Kg)	ASTM D1238	g/10min	8.0
Density @ 23°C	ASTM D792	g/cm ³	0.960
Mechanical Properties			
Tensile Strength @ Yield (Type-IV)	ASTM D638	MPa	28
Elongation @ Yield (Type-IV)	ASTM D638	%	11
Elongation @ Break (Type-IV)	ASTM D638	%	>800
Flexural Modulus	ASTM D790	MPa	900
Notched Izod Impact Strength @ 23°C	ASTM D256	J/m	80
Hardness	ASTM D2240	ShoreD	60
Thermal Properties			
Vicat Softening Point	ASTM D1525	°C	126

* Typical values not to be construed as specification limits. Values may change without any prior notice.

* Mechanical Properties tested on Injection Moulded test specimens.

Recommended Processing Temperature: 180 – 215°C

Packaging Information:

This material is packed and available in raffia bags with net content of 25.0 Kg only. The raffia bags used conforms to the minimum strength requirements of BIS, however, customer shall take due care while handling the bag. Prolonged exposure of these bags to sunlight may deteriorate the bag's performance and cause spillage and wastage. IOCL does not warranty loss of material due to poor material handling practices.

Storage & Handling:

Prevent HDPE Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the storage temperature should not exceed **50°C**. Non-compliance to these precautionary measures can lead to degradation of the product causing colour changes, odor and inadequate product performance. It is advised to process HDPE material within 06 months of delivery.

Regulatory Information:

HDPE 080M60U meets the "Specification for Polyethylene for safe use in contact with Foodstuff, Pharmaceuticals and Drinking water" as per IS: 10146-1982. It also conforms to the positive list of constituents as per IS: 16738-2018. The grade and Additives incorporated shall meet with FDA: CFR Title21, 177.1520, Olefin Polymers.

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