

High Density Polyethylene

Injection Molding

Product Description:

080M55 is a high density polyethylene manufactured using Nova Chemicals' Sclairtech Solution Polymerization Technology. It is a natural colored polymer with good processability, very good mechanical properties and good dimensional stability.

Recommended Applications:

HDPE 080M55 is designed to make injection molded products like:

- Caps & Closures
- Industrial Products.

Typical Properties:

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190°C & 2.16Kg)	ASTM D1238	gm/10 min	8.0
Density @ 23°C	ASTM D792	gm/cm ³	0.955
Mechanical Properties			
Tensile Strength @ Yield	ASTM D638	MPa	25
Elongation @ Yield	ASTM D638	%	11
Elongation @ Break	ASTM D638	%	>800
Notched Izod Impact Strength @ 23°C	ASTM D256	J/m	80
Flexural Modulus	ASTM D790	MPa	850
Hardness	ASTM D2240	Shore D	55
Thermal Properties			
Vicat Softening Point	ASTM D1525	°C	125

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

*Mechanical Properties tested on Injection Molded 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 warrant 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 color changes, odor and inadequate product performance.

Regulatory Information:

HDPE 080M55 meet "Specification for Polyethylene for safe use in contact with Foodstuff, Pharmaceuticals and Drinking water" as per IS: 10146-1982. It also confirms to the positive list of constituents as per IS: 10141-1982. The grade and Additives incorporated shall meet with FDA: CFR Title21, 177.1520, Olefin Polymers. It is advised to process HDPE material within 6 months of delivery.

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