

High Density Polyethylene

Compression Molded Caps

Product Description:

020M52 is a High Density Polyethylene manufactured using Nova Chemical's Sclairtech Solution Polymerization Technology with following features:

- Superior Processability
- Superior mechanical properties

Typical Properties:

Recommended Applications:

HDPE 020M52 is recommended for following applications

- Compression Molded Caps and Closures
- Injection Molded Products

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190°C & 2.16 Kg)	ASTM D 1238	gm/10 min	2.7
Density @ 23°C	ASTM D 1505	gm/cm ³	0.952
Mechanical Properties			
Tensile Strength @ Yield	ASTM D 638	MPa	25
Elongation at Break	ASTM D 638	%	>600
Notched Izod Impact Strength	ASTM D 256	J/m	180
Flexural Modulus	ASTM D790	Mpa	800
Thermal Properties			
Vicat Softening Point (10N)	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: 160 – 190 °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.

Regulatory Information:

HDPE 020M52 shall 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.

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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 no exceed 50°C. Non - compliance to these precautionary measures can lead to degradation of the product causing color changes, odor and inadequate product performance. It is advised to process HDPE material within 06 months of delivery.



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