

HDPE 180M50

High Density Polyethylene

Injection Molding

Product Description

180M50 is a High Density Polyethylene manufactured using Nova Chemical's Sclairtech Solution Polymerisation Technology.

180M50 is a natural coloured polymer with excellent flow properties, very good processability and excellent gloss.

HDPE 180M50 is designed for injection molded house ware and thin wall moulded products.

Typical Properties*

S.No	Property	Test Method	Unit	Value**
1	Density	ASTM D 1505	g/cc	0.95
2	Melt Flow Index	ASTM D 1238	g/10min	18
3	Tensile Strength @yield	ASTM D 638	Mpa	24
4	Elongation at yield	ASTM D 638	%	12
5	Flexural modulus	ASTM D 790	Mpa	900
6	Hardness	ASTM D 2240	Shore D	70
7	Vicat Softening Point	ASTM D 1525	°C	124

*Typical values not to be taken as specification

** Typical properties are on injection molded specimen.

Processing Guidelines

Processing Temperature (°C): 180 - 215

Regulatory Requirements

HDPE 180M50 shall meet "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: 10141-1982. The grade and Additives incorporated shall meet with FDA: CFR Title21, 177.1520, Olefin Polymers.

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.