

Provisional Technical Data Sheet

HDPE 003F46



High Density Polyethylene

Blown Film

Product Description

003F46 is a High Density Polyethylene manufactured using Nova Chemical's Sclairtech Solution Polymerisation Technology.

003F46 is a natural coloured polymer with good processability and low gel content.

HDPE 003F46 is designed for co-extrusion film & liners.

Typical Properties*

S.No	Property	Test Method	Unit	Values**
1	Density	ASTM D 1505	g/cc	0.946
2	Melt Flow Index	ASTM D 1238	g/10min	0.30
3	Tensile Strength @yield (MD/TD)	ASTM D 882	Mpa	29/26
4	Ultimate tensile strength (MD/TD)	ASTM D 882	Mpa	45/40
5	Elongation at break(MD/TD)	ASTM D 882	%	780/950
6	Dart Impact strength (38mm dart,66cm height)	ASTM D 1709	g/mic	2
7	Tear strength	ASTM D 1922	g/mic	0.4/4.5

*Typical properties not to be considered as specification

**Mechanical properties with 40 μ film made with 0.75mm die gap & 2.75 BUR.

Processing Guidelines

Barrel Temperature °C 180 - 200

Melt Temperature °C 190 - 210

Blow up Ratio - 2.0 - 3.0

Die Gap mm 0.75 - 2.5

Regulatory Requirements

HDPE 003F46 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.

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