



# 52GF004 HIGH MOLECULAR WEIGHT FOR BLOWN FILM

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Relene 52GF004 is a blown film grade of High Molecular Weight High Density Polyethylene (HMHDPE). It possesses bimodal molecular weight distribution, which improves processability. 52GF004 can readily be processed on HMHDPE blown film lines. The films will have homogeneous, finely textured, opaque appearance and exhibit very good mechanical properties.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Melt Flow Index (190°C/5kg)	ASTM D1238	g/10 min	0.45
Density (@ 23°C)	ASTM D 1502	g/cc	0.952
Tensile Strength at Yield (MD/TD)	ASTM D 882	MPa	30/32
Ultimate Tensile Strength (MD/TD)	ASTM D 882	MPa	50/48
Elongation @ Break (MD/TD)	ASTM D 882	%	>600
Dart Impact Strength, F50 (38mm dart, 66 cm Height)	ASTM D 1709	g/μm	6
Tear Strength (MD/TD)	ASTM D1922	g/μm	0.6/9.2

\*Typical Characteristics are not to be taken as specifications

\*\*Typical Values (Mechanical) with 20 μ film made with 0.75mm die gap & 4 BUR

## Applications

High gloss paper-like film for liners & over - wraps.

## Regulatory Information

- Meets the requirements stipulated in standard IS : 10146 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to the positive list of constituents as prescribed in IS : 10141. The grade and the additives incorporated in it also comply with the FDA:CFR Title 21, 177.1520, Olefin polymers.

## Storage Recommendations

- Bags should be stored in dry / closed conditions at temperatures below 50°C and protected from UV / direct sunlight.

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