



TECHNICAL DATA SHEET (TDS)

HDPE HMW9-50 HIGH DENSITY POLYETHYLENE

OVERVIEW:

Broad molecular weight distribution, excellent tear strength, exceptional impact strength and excellent processability, moderate swell.

Applications t-shirts, bags, trash can lines, merchandise.

Complies with the specifications U.S FDA 21 CFR 177.1520.

ADDITIVE:

Properties	Test Method	Units	Nominal Values
Melt Index (190° C/2.16 Kg)	ASTM D1238	g/10min	0.08
Density	ASTM D792	g/cm ³	0.951
Properties			
Tensile strength at yield MD	ASTM D882	Psi	5300
Tensile strength at yield TD	ASTM D882	Psi	5000
Tensile strength at break MD	ASTM D882	Psi	9200
Tensile strength at break TD	ASTM D882	Psi	9800
Elongation MD	ASTM D882	%	300-500
Elongation TD	ASTM D882	%	300-500
2% Secant Modulus MD	ASTM D882	Psi/MPa	122000
2% Secant Modulus TD	ASTM D882	Psi/MPa	132000
Dart Drop Impact Strength (F₅₀)	ASTM D1709A	g	350

The values were measured on a 20 µm film in a blown film line with 4:1 BUR and 50 mm Alpine extruder.

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