



DATA SHEET

ALTOFLEX® HMW 900

Description: Bimodal high molecular weight high density polyethylene copolymer made for thin gauge blown film applications where high stiffness, strength and good processability are required.

Applications:

- T-Shirt bags
- Produce bags
- Heavy duty bags
- Grocery sacks
- Roll stock
- Blow molding

Resin Properties	Method	Typical Value	
Density	ASTM D 4883	0.951	g/cm ³
Melt Index, 190°/21.6 kg	ASTM D 1238	9.00	g/10 min
Melt Index, 190°/5.0 kg	ASTM D 1238	0.31	g/10 min
Film Properties	Method	Typical Value	
Tensile Strength at Yield:			
MD	ASTM D 882	34.00	MPa
TD		31.00	MPa
Tensile Strength at Break:			
MD	ASTM D 882	69.00	MPa
TD		62.00	MPa
Elongation at Break:			
MD	ASTM D 882	300	%
TD		500	%
2 % Secant Modulus			
MD	ASTM D 882	925	MPa
TD		1030	MPa
Elmendorf Tear			
MD	ASTM D 1922	18	g
TD		175	g
Dart Drop Impact Strength, F ₅₀	ASTM D 1709	350	g
Compression Molded Sample	Method	Typical Value	
Vicat Softening Point	ASTM D 1525	124	°C
Environmental Stress Crack Resistance Condition B, 100% Igepal, F50 (hrs)	ASTM D 1693	> 1500	hrs

Note: Typical properties: these results are not to be construed as specifications. The user must confirm the results by their own methods. Data obtained from 15 micron film, produced on a blown film line with 4:1 BUR and stalk height of 7x die diameter.

Disclaimer: Information in this document is accurate to the best of our knowledge at the date of publication. Users will determine whether the product is suitable for their use.