



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 Strenght at Yield:				
MD		ASTM D 882	34.00	MPa
TD			31.00	MPa
Tensile Strenght 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.
