

# J52-08-226 Polyethylene Copolymer

J52-08-226 is a bimodal high molecular weight high density polyethylene copolymer designed for thin gauge blown film applications where good processability, high stiffness and excellent strength are required such as: Grocery sacks, T-Shirt bags, Institutional/Industrial Can Liners, Roll Stock, Produce Bags, Heavy Duty Bags and Deli Wrap.

J52-08-226 meets the requirements of the U.S. Food and Drug Administration of 21 CFR 177.1520 covering the safe use of articles intended for use in food contact applications.<sup>1</sup>

## Typical Properties<sup>2</sup>

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.951 g/cc	D4883
Melt Index 190°C/5.0 kg	—	0.31 g/10 min	D1238
Melt Index 190°C/ 21.6 kg	—	9.0 g/10 min	D1238
<b>Compression Molded Sample</b>			
Vicat Softening Point	255 °F	124 °C	D1525
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	> 1,500	> 1,500	
<b>Film<sup>3</sup></b>			
Dart Drop Impact Strength, F50	—	350 g	D1709
Elmendorf Tear Strength	MD	18 g	D1922
	TD	180 g	
Tensile Strength @ Yield	MD	5,000 psi	D882
	TD	4,500 psi	
Tensile Strength @ Break	MD	10,000 psi	D882
	TD	9,000 psi	
Elongation @ Break	MD	300 %	D882
	TD	500 %	
Secant Modulus (2%)	MD	135,000 psi	D882
	TD	150,000 psi	

<sup>1</sup> Specific limitations may apply. Consult the J52-08-226 Regulatory Position Statement for more information.

<sup>2</sup> Typical property values will vary and are not to be used as specification limits.

<sup>3</sup> Film property data based on 0.6 mil film (15 micron) obtained under laboratory conditions at a 4:1 Blow-Up-Ratio (BUR) and stalk height of 7x die diameter. Actual film properties may vary depending on extrusion equipment and processing conditions.