DOW

AGILITY™ 1200 Performance LDPE
Low Density Polyethylene Resin

Overview   AGILITY™ 1200 Performance LDPE is a high pressure LDPE resin designed specifically to run at faster output rates on blown film lines in blends with LLDPE resins while maintaining bubble stability. It also has excellent shrink and good optics performance in blends with LLDPE resins.

Additive
- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)		Nominal Value (SI)		Test Method
Density	0.919	g/cm³	0.919	g/cm³	ASTM D1505
Base Density [1]	0.919	g/cm³	0.919	g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	0.22	g/10 min	0.22	g/10 min	ASTM D1238
Films	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Film Thickness - Tested	2	mil	51	µm	
Secant Modulus					ASTM D882
2% Secant, MD : 2.0 mil (51 µm)	29000	psi	200	MPa	
2% Secant, TD : 2.0 mil (51 µm)	33000	psi	228	MPa	
Tensile Strength					ASTM D882
MD : Yield	1600	psi	11.0	MPa	
TD : Yield	1600	psi	11.0	MPa	
Tensile Elongation					ASTM D882
MD : Break	200	%	200	%	
TD : Break	500	%	500	%	
Dart Drop Impact	170	g	170	g	ASTM D1709A
Elmendorf Tear Strength					ASTM D1922
MD	220	g	220	g	
TD	210	g	210	g	
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Melting Temperature (DSC)	228	°F	109	°C	Dow Method
Optical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Gloss (45°)	34		34		ASTM D2457
Haze	18.0	%	18.0	%	ASTM D1003

Extrusion Notes

Fabrication Conditions For 2 mil monolayer Blown Film at 100%:
- Die Diameter: 8 in.
- Screw Type: DSB II
- Die Gap: 30 mil
- Melt Temperature: 460 °F
- Output: 12 lb/hr/in. of die circumference
- Screw Size: 3.5 in.
- Blow-Up Ratio: 2.5 to 1
- Screw Speed: 47 rpm
- Frost Line HEIGHT: 45 in.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.