AGILITY™ 1200 Performance LDPE

The Dow Chemical Company - Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

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.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Forms	• Pellets		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	0.22	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	2	mil	
Secant Modulus - 2% Secant, MD (2.0 mil)	29000	psi	ASTM D882
Secant Modulus - 2% Secant, TD (2.0 mil)	33000	psi	ASTM D882
Tensile Strength - MD (Yield)	1600	psi	ASTM D882
Tensile Strength - TD (Yield)	1600	psi	ASTM D882
Tensile Elongation - MD (Break)	200	%	ASTM D882
Tensile Elongation - TD (Break)	500	%	ASTM D882
Dart Drop Impact	170	g	ASTM D1709A
Elmendorf Tear Strength - MD	220	g	ASTM D1922
Elmendorf Tear Strength - TD	210	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature (DSC)	228	°F	Internal Method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°)	34		ASTM D2457
Haze	18.0	%	ASTM D1003

Processing Information

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.

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Notes

[1] Typical properties: these are not to be construed as specifications.