

**AGILITY™ AT 1604 Performance LDPE****Description**

AGILITY™ AT 1604 Performance LDPE can be readily extruded using conventional blown film techniques utilizing melt temperatures between 170 and 230°C. AGILITY™ AT 1604 Performance LDPE has been designed to have excellent bubble stability and is therefore particularly suited to large wide width blown film application such as agricultural films.

Applications

- Heavy duty industrial film
- Agricultural film
- Shrink films

Complies with

- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520(c)2.2

Consult the regulations for complete details.

Properties¹

Physical	Nominal Value	Unit	Test Method ²
Density	0.921	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) 190°C/2.16 kg	0.25	g/10 min	ASTM D1238
Films			
Film Thickness - Tested	50	µm	ISO 527-3
Film Toughness			ISO 527-3
MD	23.9	J/cm ³	
TD	61.4	J/cm ³	
Secant Modulus			ISO 527-3
2% Secant, MD	187	MPa	
2% Secant, TD	200	MPa	
Tensile Strength			ISO 527-3
MD: Yield	8.70	MPa	
TD: Yield	8.68	MPa	
MD: Break	16.4	MPa	
TD: Break	19.2	MPa	
Tensile Elongation			ISO 527-3
MD: Break	160	%	
TD: Break	500	%	



Properties (Cont.)

Films	Nominal Value	Unit	Test Method
Dart Drop Impact ³	140	g	ISO 7765-1
Elmendorf Tear Strength			ASTM D1922
MD	240	g	
TD	11	g	
Thermal			
Vicat Softening Temperature	97.2	°C	ASTM D1525
Optical			
Gloss	23		ASTM D2457
Haze	24.3	%	ASTM D1003
Clarity	1.34		ASTM D1746

Extrusion Notes

Fabrication Conditions For Blown Film:

- Melt Pressure: 193 bar
- Die Gap: 1 mm
- Melt Temperature: 231°C
- Output: 29 kg/hr
- Die Diameter: 60 mm
- Blow-Up Ratio: 2.5 to 1
- Screw Speed: 85 rpm
- Frost Line Height: 250 mm

