

# Polymer-E F2201

Low Density Polyethylene  
Asia Polymer Corporation (APC)

Message:

Polymer-E F2201 is a Low Density Polyethylene product. It is available in Asia Pacific. Applications of Polymer-E F2201 include film and hose/tubing. Characteristics include:  
Antiblock  
Good Aesthetics  
Slip

General Information			
Additive	Medium Antiblock Medium Slip		
Features	General Purpose Medium Antiblocking Medium Slip Opticals		
Uses	Film Tubing		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	< 0.11		ASTM D1894
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
1% Secant, MD : 32 µm, Blown Film	193	MPa	
1% Secant, TD : 32 µm, Blown Film	221	MPa	
Tensile Strength			ASTM D882
MD : Break, 32 µm,Blown Film	23.5	MPa	
TD : Break, 32 µm,Blown Film	17.7	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 µm,Blown Film	320	%	
TD : Break, 32 µm,Blown Film	540	%	
Dart Drop Impact (32 µm, Blown Film)	90	g	ASTM D1709

Elmendorf Tear Strength <sup>1</sup>			ASTM D1922
MD : 31.8 μm	88.3	kN/m	
TD : 31.8 μm	68.6	kN/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	49.0	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	97.0	°C	ASTM D1525
Melting Temperature	110	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (60°, 31.8 μm, Blown Film)	120		ASTM D523
Haze (31.8 μm, Blown Film)	5.0	%	ASTM D1003
NOTE			
1.	Blown Film		

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