

Polymer-E H0105

Low Density Polyethylene
Asia Polymer Corporation (APC)

Message:

Polymer-E H0105 is a Low Density Polyethylene product. It is available in Asia Pacific. Applications of Polymer-E H0105 include agricultural, bags/liners, construction applications and film. Primary characteristic: antiblock.

General Information			
Additive	High Antiblock		
Features	Antiblocking		
Uses	Agricultural Applications		
	Bags		
	Construction Applications		
	Film		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	54		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	< 0.55		ASTM D1894
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
1% Secant, MD : 32 µm, Blown Film	196	MPa	
1% Secant, TD : 32 µm, Blown Film	216	MPa	
Tensile Strength			ASTM D882
MD : Break, 32 µm,Blown Film	25.5	MPa	
TD : Break, 32 µm,Blown Film	21.6	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 µm,Blown Film	330	%	
TD : Break, 32 µm,Blown Film	500	%	
Dart Drop Impact (32 µm, Blown Film)	300	g	ASTM D1709
Elmendorf Tear Strength ¹			ASTM D1922
MD : 31.8 µm	51.0	kN/m	
TD : 31.8 µm	73.5	kN/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	52.0	°C	ASTM D648

Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	101	°C	ASTM D1525
Melting Temperature	108	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (60°, 31.8 μm, Blown Film)	75		ASTM D523
Haze (31.8 μm, Blown Film)	10	%	ASTM D1003

NOTE

1. Blown Film

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