

Aegis® H100QP

Polyamide 6

Honeywell

Message:

Aegis® H100QP is a lubricated, medium viscosity nylon 6 extrusion grade homopolymer for cast or blown film. It conforms to FDA requirements of 21 CFR 177.1500 as well as EU Directive 2002/72/EC. It possesses the combination of strength, toughness and thermoforming properties associated with nylon 6 as well as excellent heat, chemical, and abrasion resistance.

General Information	
Additive	Nucleating agent
	Lubricant
Features	Nucleated
	Homopolymer
	Good strength
	Good wear resistance
	Good chemical resistance
	Heat resistance, high
	Good toughness
	Lubrication
	Medium viscosity
Uses	Packaging
	cast film
Agency Ratings	FDA 21 CFR 177.1500
	European 2002/72/EC
Forms	Particle
Processing Method	Blow film
	Extrusion
	cast film

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	2.6	g/10 min	ASTM D1238
Water Absorption			ASTM D570
24 hr	1.6	%	ASTM D570
Saturation	9.5	%	ASTM D570
Balance	2.7	%	ASTM D570
Moisture Content		%	

Films	Nominal Value	Unit	Test Method
Carbon Dioxide Transmission Rate (23°C)	72.8	cm ³ /m ² /24 hr	ASTM D1434
Nitrogen Transmission Rate (23°C)	14.0	cm ³ /m ² /24 hr	ASTM D1434
Oxygen Transmission Rate (23°C)	40	cm ³ /m ² /24 hr	ASTM D3985

Thermal	Nominal Value	Unit
Melting Temperature	220	°C

Additional Information

FAV, ASTM D789: 10096% SAV: 3.35Extractible Content: 0.7 %

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	230 - 260	°C
Cylinder Zone 2 Temp.	230 - 260	°C
Cylinder Zone 3 Temp.	230 - 260	°C
Cylinder Zone 4 Temp.	230 - 260	°C
Cylinder Zone 5 Temp.	230 - 260	°C
Adapter Temperature	260 - 266	°C
Melt Temperature	260 - 270	°C
Die Temperature	260	°C

Extrusion instructions

The values listed above in Extrusion are for cast film. Typical Barrel Profile for Tubular (Blown) Films:

Barrel Temperature: 246 to 254°C (474 to 490°F)

Adapter Temperature: 260°C (500°F)

Die Temperature: 254°C (490°F)

Processing Melt Temperature: 254 to 260°C (490 to 500°F)

Screw Parameters:

Metering section: 40%

Transition section: 3 to 4 flights

Feed section balance of screw length

Compression ratio: 3.5:1 to 4.0:1

L/D ratio: 24:1

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