Aegis® H85NP

Polyamide 6

Honeywell

Message:

Aegis ® H85NP is a medium viscosity nylon 6 extrusion grade homopolymer for cast or blown BOPA 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			
Features	Homopolymer		
	Good strength		
	Good wear resistance		
	Good chemical resistance		
	Heat resistance, high		
	Good toughness		
	Medium viscosity		
Uses	Blow molding applications		
	cast film		
Agency Ratings	FDA 21 CFR 177.1500		
	European 2002/72/EC		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
	cast film		
	Thermoforming		

Nominal Value	Unit	Test Method
1.13	g/cm³	ASTM D1505
3.5	g/10 min	ASTM D1238
		ASTM D570
1.6	%	ASTM D570
9.5	%	ASTM D570
2.7	%	ASTM D570
	%	
3.19		
85.0		ASTM D789
Nominal Value	Unit	Test Method
72.8	cm³/m²/24 hr	ASTM D1434
	1.13 3.5 1.6 9.5 2.7 3.19 85.0 Nominal Value	1.13 g/cm³ 3.5 g/10 min 1.6 % 9.5 % 2.7 % 3.19 85.0 Unit

Nitrogen Transmission Rate (23°C)	14.0	cm³/m²/24 hr	ASTM D1434
Oxygen Transmission Rate (23°C)	40	cm³/m²/24 hr	ASTM D3985
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	220	°C	ASTM D3418
Additional Information			
Extractible Content: < 0.8 %			
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
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			

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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