

Honeywell Aegis H135ZP Nylon 6 Extrusion Grade Homopolymer Film

Category : Polymer , Film , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Extruded

Material Notes:

Description: Aegis H135ZP is a high viscosity, nylon 6 film extrusion grade homopolymer for cast or blown film. It conforms to Food and Drugs Administration requirements of 21 CFR 177.1500 for nylon 6. It possesses the combination of strength, toughness and thermo-forming properties associated with nylon 6 as well as excellent heat, chemical, and abrasion resistance. Applications: Processed Meat Fresh Red Meat Poultry Fish Cheese Dried Food Chilled Fruit Juices Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Aegis-H135ZP-Nylon-6-Extrusion-Grade-Homopolymer-Film.php

Physical Properties	Metric	English	Comments
Water Vapor Permeability	15400 g mil/ (m ² day) @Temperature 38.0 Â°C	992 g mil/ (100 in ² day) @Temperature 100 Â°F	ASTM F1249
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D1505
Water Absorption	0.80 %	0.80 %	Extractable Content
	1.6 %	1.6 %	in 24 hours
Moisture Absorption at Equilibrium	2.7 %	2.7 %	at 50% RH
Water Absorption at Saturation	9.5 %	9.5 %	
Oxygen Transmission Rate	40.3 cc/mÂ²/day	2.60 cc/100 inÂ²/day	
Nitrogen Transmission	14.0 cc-mm/mÂ²-24hr- atm	35.6 cc-mil/100 inÂ²- 24hr-atm	cc/mÂ²/day, No thickness given
Carbon Dioxide Transmission	72.8 cc-mm/mÂ²-24hr- atm	185 cc-mil/100 inÂ²- 24hr-atm	cc/mÂ²/day, No thickness given
Viscosity Measurement	3.75	3.75	96% Sulfuric Acid
	135	135	FAV; ASTM D789
Maximum Moisture Content	<= 0.080	<= 0.080	
Melt Flow	1.2 g/10 min @Load 1.00 kg, Temperature 235 Â°C	1.2 g/10 min @Load 2.20 lb, Temperature 455 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	Molded; ASTM D882
Film Tensile Strength at Yield, MD	30.0 MPa	4350 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	330 %	330 %	ASTM D882
Film Elongation at Break, TD	330 %	330 %	ASTM D882
Elongation at Break	4.1 %	4.1 %	Molded; ASTM D882
Tensile Modulus	0.640 GPa	92.8 ksi	TD; ASTM D882
	0.660 GPa	95.7 ksi	MD; ASTM D882
	2.63 GPa	381 ksi	Molded; ASTM D882
Flexural Strength	100 MPa	14500 psi	Molded; ASTM D790
Flexural Modulus	2.61 GPa	379 ksi	Molded; ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	Molded; ASTM D256
Tear Strength, Total	2170 N	488 lb (f)	Graves, MD; ASTM D1004
	2380 N	535 lb (f)	Graves, TD; ASTM D1004
Elmendorf Tear Strength MD	87700 g	87700 g	ASTM D1922
Elmendorf Tear Strength TD	101000 g	101000 g	ASTM D1922
Film Tensile Strength at Break, MD	90.0 MPa	13100 psi	ASTM D882
Film Tensile Strength at Break, TD	90.0 MPa	13100 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 Â°F	ASTM D3418

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	230 - 260 Â°C	446 - 500 Â°F	Cast Film
	246 - 254 Â°C	475 - 489 Â°F	Tubular (Blown) Film
Adapter Temperature	260 Â°C	500 Â°F	Tubular (Blown) Film
	260 - 266 Â°C	500 - 511 Â°F	Cast Film
Die Temperature	254 Â°C	490 Â°F	Tubular (Blown) Film
	260 Â°C	500 Â°F	Cast Film
Melt Temperature	240 Â°C	464 Â°F	Molded
	254 - 260 Â°C	489 - 500 Â°F	Tubular (Blown) Film

Processing Properties	Metric	English	Comments
Mold Temperature	80.0 °C	176 °F	Molded
Moisture Content	0.080 %	0.080 %	

Descriptive Properties	Value	Comments
Heat Deflection Temperature,	55 °C	ASTM D648
Puncture Index	470 gm/mil	ASTM D1306, MD
Puncture Strength	1050 g	ASTM D1306, MD

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