

Honeywell Aegis H100MP Nylon 6 Extrusion Grade Homopolymer Film

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

Material Notes:

Description: Aegis H100MP is a lubricated and nucleated medium viscosity, nylon 6 extrusion grade homopolymer for cast or blown film. It conforms to Food and Drugs Administration requirements of 21 CFR 177.1500 as well as EU Directive 2002/72/EC. 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-H100MP-Nylon-6-Extrusion-Grade-Homopolymer-Film.php

Physical Properties	Metric	English	Comments
Water Vapor Permeability	992 g mil/ (m ² day) @Temperature 38.0 Å°C	64.0 g mil/ (100 in ² day) @Temperature 100 Å°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/mÅ²/day	2.60 cc/100 inÅ²/day	
Nitrogen Transmission	14.0 cc-mm/mÅ²-24hr-atm	35.6 cc-mil/100 inÅ²-24hr-atm	cc/mÅ²/day, No thickness given
Carbon Dioxide Transmission	72.8 cc-mm/mÅ²-24hr-atm	185 cc-mil/100 inÅ²-24hr-atm	cc/mÅ²/day, No thickness given
Viscosity Measurement	3.35	3.35	96% SAV
	100	100	FAV; ASTM D789
Maximum Moisture Content	0.080	0.080	
Melt Flow	2.6 g/10 min @Load 1.00 kg, Temperature 235 Å°C	2.6 g/10 min @Load 2.20 lb, Temperature 455 Å°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 Mechanical Properties	30.0 MPa Metric	4350 psi English	ASTM D882 Comments
Film Tensile Strength at Yield, TD	30.0 MPa	4350 psi	ASTM D882
Film Elongation at Break, MD	340 %	340 %	ASTM D882
Film Elongation at Break, TD	340 %	340 %	ASTM D882
Elongation at Break	3.8 %	3.8 %	Molded; ASTM D882
Tensile Modulus	0.590 GPa	85.6 ksi	TD; ASTM D882
	0.700 GPa	102 ksi	MD; ASTM D882
	3.24 GPa	470 ksi	Molded; ASTM D882
Flexural Strength	110 MPa	16000 psi	Molded; ASTM D790
Flexural Modulus	2.65 GPa	384 ksi	Molded; ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	Molded; ASTM D256
Tear Strength, Total	2070 N	465 lb (f)	Graves, TD; ASTM D1004
	2140 N	481 lb (f)	Graves, MD; ASTM D1004
Elmendorf Tear Strength MD	89700 g	89700 g	ASTM D1922
Elmendorf Tear Strength TD	96900 g	96900 g	ASTM D1922
Film Tensile Strength at Break, MD	90.0 MPa	13100 psi	ASTM D882
Film Tensile Strength at Break, TD	80.0 MPa	11600 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

Processing Properties	254 - 260 Â°C Metric	489 - 500 Â°F English	Tubular (Blown) Film Comments
	260 - 270 Â°C	500 - 518 Â°F	Cast Film
Mold Temperature	80.0 Â°C	176 Â°F	Molded
Moisture Content	0.040 %	0.040 %	

Descriptive Properties	Value	Comments
Heat Deflection Temperature,	61Â°C	ASTM D648
Puncture Index	470 gm/mil	ASTM D1306, MD
Puncture Strength	960 g	ASTM D1306, MD

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