

Honeywell Aegis™ HFX High Barrier Nylon (discontinued **)

Category : Polymer , Film , Thermoplastic , Nylon

Material Notes:

Description: Aegis® HFX is an oxygen scavenging polyamide composition formulated specifically for use in high performance packaging applications where high gas barrier is required. This product is useful in injection and extrusion molding applications. Aegis® HFX offers high oxygen barrier, even at high humidity, outstanding delamination resistance and whitening resistance, clarity and easy processing (particularly in the PET co-injection stretch blow molding process).Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Aegis-HFX-High-Barrier-Nylon-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D1505
Bulk Density	0.730 g/cc	0.0264 lb/in ³	ISO 60
Oxygen Transmission	<= 0.000787 cc-mm/m ² -24hr-atm	<= 0.00200 cc-mil/100 in ² -24hr-atm	80% RH, 23°C, cast film
Melt Index of Compound	13 g/10 min	13 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 260 °C	@Load 4.76 lb, Temperature 500 °F	
	26 g/10 min	26 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 280 °C	@Load 4.76 lb, Temperature 536 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.4 MPa	7450 psi	ISO 527
Tensile Strength, Yield	83.4 MPa	12100 psi	ISO 527
Elongation at Break	192 %	192 %	ISO 527
Elongation at Yield	5.2 %	5.2 %	ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	2.54 GPa	368 ksi	ISO 178

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.5 °C	163 °F	ISO 1133
Deflection Temperature at 1.8 MPa (264 psi)	66.8 °C	152 °F	ISO 1133

Glass Transition Temp, Tg Thermal Properties	82.0 °C Metric	180 °F English	DSC method Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	265 - 280 °C	509 - 536 °F	Manifold
Feed Temperature	35.0 °C	95.0 °F	
Nozzle Temperature	265 °C	509 °F	
Zone 1	245 °C	473 °F	
Zone 2	265 °C	509 °F	
Zone 3	265 °C	509 °F	
Zone 4	265 °C	509 °F	
Zone 5	265 °C	509 °F	

Descriptive Properties	Value	Comments
Melt Temperature	Amorphous	
Oxygen Scav. Capacity	min 10 cc/g	GC Method

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