

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

Category : Polymer , Film , Thermoplastic , Nylon

Material Notes:

Description: Aegis OX is an oxygen-scavenging nylon. Oxygen barrier is comparable to a glass bottle with metal crown closure. In addition Aegis OX provides CO2 barrier and possesses glass-like clarity. Because the recommended processing temperature of Aegis OX is similar to PET's, Aegis OX is well suited to the PET co-injection process and provides excellent adhesion to PET. Aegis OX is also delamination resistant and recyclable. Information provided by Honeywell.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	
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
Carbon Dioxide Transmission	1.38 cc-mm/m ² -24hr-atm	3.50 cc-mil/100 in ² -24hr-atm	80% RH, 23°C, oriented film
Melt Index of Compound	10 g/10 min	10 g/10 min	
	@Load 2.16 kg, Temperature 260 °C	@Load 4.76 lb, Temperature 500 °F	
	20 g/10 min	20 g/10 min	
	@Load 2.16 kg, Temperature 280 °C	@Load 4.76 lb, Temperature 536 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	96.5 MPa	14000 psi	oriented film
Tensile Strength, Yield	58.6 MPa	8500 psi	oriented film, Yield Stress
Elongation at Break	96 %	96 %	oriented film
Elongation at Yield	8.0 %	8.0 %	oriented film
Secant Modulus	0.752 GPa	109 ksi	oriented film

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	80.0 °C	176 °F	DSC method

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 280 °C	518 - 536 °F	

Feed Temperature Processing Properties	25.0 °C Metric	77.0 °F English	Comments
Nozzle Temperature	280 °C	536 °F	
Zone 1	260 °C	500 °F	
Zone 2	270 °C	518 °F	
Zone 3	270 °C	518 °F	
Zone 4	275 °C	527 °F	
Zone 5	280 °C	536 °F	
Melt Temperature	208 °C	406 °F	

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

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