

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

Category : Polymer , Film , Thermoplastic , Nylon

Material Notes:

Description: Aegis CSD provides delamination resistance during production and a significantly improved, high level of passive CO2 barrier compared with monolayer PET. Information provided by Honeywell.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	
Oxygen Transmission	0.236 cc-mm/m ² -24hr-atm	0.600 cc-mil/100 in ² -24hr-atm	80% RH, 23°C, cast film
Carbon Dioxide Transmission	0.472 cc-mm/m ² -24hr-atm	1.20 cc-mil/100 in ² -24hr-atm	80% RH, 23°C, oriented film
Melt Index of Compound	14 g/10 min	14 g/10 min	
	@Load 2.16 kg, Temperature 260 °C	@Load 4.76 lb, Temperature 500 °F	
	24 g/10 min	24 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	102 MPa	14800 psi	oriented film
Tensile Strength, Yield	90.3 MPa	13100 psi	oriented film, Yield Stress
Elongation at Break	42 %	42 %	oriented film
Elongation at Yield	4.0 %	4.0 %	oriented film
Secant Modulus	3.013 GPa	437.0 ksi	oriented film

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	82.0 °C	180 °F	DSC method

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 280 °C	518 - 536 °F	
Feed Temperature	25.0 °C	77.0 °F	
Nozzle Temperature	280 °C	536 °F	

Processing Properties	Metric	English	Comments
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	233 °C	451 °F	

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