

Aegis® BarrierPro2™

High Performance Polyamide

Honeywell

Message:

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).

General Information			
Features	Workability, good		
	Definition, high		
	Barrier resin		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ASTM D1505
Apparent Density	0.73	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)			ISO 1133
260°C/2.16 kg	13	g/10 min	ISO 1133
280°C/2.16 kg	23	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	83.4	MPa	ISO 527-2
Fracture	51.4	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	5.2	%	ISO 527-2
Fracture	190	%	ISO 527-2
Flexural Modulus	2540	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Oxygen Transmission Rate (23°C, 80% RH, cast film)	< 0.033	cm ³ /m ² /24 hr	ASTM D3985
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	72.5	°C	ASTM D648
1.8 MPa, not annealed	66.8	°C	ASTM D648
Glass Transition Temperature	81.0	°C	DSC
Injection	Nominal Value	Unit	

Drying Temperature	70.0 - 80.0	°C
Rear Temperature	245	°C
Middle Temperature	265	°C
Front Temperature	265	°C
Nozzle Temperature	265	°C

Injection instructions

Feed Zone: 35°C Manifold: 265 to 280°C

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