Eastobond™ 19412

Copolyester

Eastman Chemical Company

Message:

Eastman Eastobond™ 19412 is a terephthalate-based copolyester. It is identical to our 19411 resin in every aspect, except that the 19412 has been crystallized for drying purposes and ease of handling. Eastman Eastobond™ 19412 may be dried in a desicated drying system at 150 F. It offers excellent organoleptic and gas-barrier properties. Eastman Eastobond™ 19412 has low postextrusion crystallinity and a low softening point, enabling heat-seal bonds to be achieved over a temperature range of 95°C to 205°C.

General Information			
Features	Barrier Resin		
	Crystalline		
	Good Organoleptic Properties		
	Heat Sealable		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density			ASTM D1505
-- [1]	1.31	g/cm³	
--	1.33	g/cm³	
Apparent Density	0.72	g/cm³	ASTM D1895
Inherent Viscosity [2] (23°C)	0.74		Internal Method
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Secant Modulus - MD (50 µm)	2200	MPa	ASTM D882
Tensile Strength - MD (Break, 50 µm)	45.0	MPa	ASTM D882
Tensile Elongation - MD (Break, 50 µm)	< 5.0	%	ASTM D882
Elmendorf Tear Strength - MD (50 µm)	30	g	ASTM D1922
Oxygen Permeability			ASTM D3985
30°C, 50 µm, 0% RH	3.1	cm³·mm/m²/atm/24 hr	
30°C, 50 µm, 68% RH [3]	17	cm³·mm/m²/atm/24 hr	
Water Vapor Transmission Rate (38°C, 90% RH, 50 µm)	39	g/m²/24 hr	ASTM F372
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	51.0	°C	ASTM D3418
Specific Heat			DSC
25°C	1150	J/kg/°C	
75°C	1600	J/kg/°C	
125°C	1800	J/kg/°C	
200°C	2000	J/kg/°C	
250°C	2100	J/kg/°C	

290°C	2150	J/kg/°C	
Thermal Conductivity (23°C)	0.21	W/m/K	ASTM C177
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm)	95		ASTM D2457
Transmittance (Regular, 50.0 µm)	90.0	%	ASTM D1003
Haze (50.0 µm)	< 0.50	%	ASTM D1003
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Density (250°C)	1.20	g/cm³	ASTM D1238
NOTE			
1.	Film, 0.05 mm		
2.	EMN-A-AC-G-V-1		
3.	MOCON		

Recommended distributors for this material

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