Eastman™ 13319

Copolyester

Eastman Chemical Company

Message:

Eastman™ Copolyester 13319 has a high melting point, low extractables, and good hydrolytic stability.

General Information			
Features	Low extract Hydrolysis stability		
Uses	Food packaging		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density			ASTM D1505
-- [1]	1.20	g/cm³	ASTM D1505
-- [2]	1.21	g/cm³	ASTM D1505
Apparent Density (Poured)	0.74	g/cm³	ASTM D1895
Intrinsic Viscosity			
23°C [3]	0.96		
Film : 23°C, 125.0 µm	0.84		
Fusion heat (23°C)	67.0	kJ/kg	ASTM E793
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction [4]	0.50		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
Elastic Modulus - MD (25 µm)	2280	MPa	ASTM D882
Tensile Strength - MD (Break, 25 µm)	145	MPa	ASTM D882
Tensile Elongation - MD (Break)	30	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	25	g	ASTM D1922
TD : 25 µm	20	g	ASTM D1922
Oxygen Permeability (23°C, 25 µm, 50% RH)	21	cm³·mm/m²/atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (23°C, 50% RH, 25 µm)	2.3	g/m²/24 hr	ASTM F372
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	92.0	°C	DSC
Peak Melting Temperature	285	°C	ASTM D3418
Specific Heat			DSC
50°C	1500	J/kg/°C	DSC
130°C	1800	J/kg/°C	DSC

180°C	2000	J/kg/°C	DSC
250°C	2200	J/kg/°C	DSC
Thermal Conductivity (23°C)	0.21	W/m/K	ASTM C177
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 25.0 µm)	109		ASTM D2457
Transmittance (regular, 25.0 µm)	91.0	%	ASTM D1003
Haze (25.0 µm)	4.2	%	ASTM D1003
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Density (300°C)	1.09	g/cm³	ASTM D1238
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	299 - 316	°C	
Injection instructions			
Drying Dew Point: -29 to -40°C			
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Melt Temperature	299 - 302	°C	
Extrusion instructions			
Drying Dew Point: -29 to -40°C			
NOTE			
1.	Amorphous		
2.	Film		
3.	EMN-A-AC-G-V-1		
4.	Film-to-Film		

Recommended distributors for this material

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