

Product Data Sheet

Eastman Eastobond™ Copolyester 19411

Product Description

Eastobond™ 19411 is a terephthalate-based copolyester which is amorphous. It offers excellent organoleptic and gas-barrier properties. Eastobond™ 19411 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.

Typical Properties (Preliminary)

Property ^a	Test ^b Method	Typical Value, Units ^c
Physical and Thermal Properties		
Inherent Viscosity	EMN-A-AC-G- V-1	0.74
Crystalline Density	D 1505	1.33 g/cm ³
Bulk Density	D 1895	715 kg/m ³ (45 lb/ft ³)
Thermal Conductivity	C 177	0.21 W/m·K
Glass Transition Temperature (T _g)	D 3418	51°C (124°F)
Specific Heat		
@ 25°C (77°F)	DSC	1.15 kJ/kg·K (0.27 Btu/lb·°F)
@ 75°C (167°F)	DSC	1.60 kJ/kg·K (0.38 Btu/lb·°F)
@ 125°C (257°F)	DSC	1.80 kJ/kg·K (0.43 Btu/lb·°F)
@ 200°C (392°F)	DSC	2.00 kJ/kg·K (0.48 Btu/lb·°F)
@ 250°C (482°F)	DSC	2.10 kJ/kg·K (0.50 Btu/lb·°F)
@ 290°C (554°F)	DSC	2.15 kJ/kg·K (0.51 Btu/lb·°F)
Melt Density @ 250°C (482°F)	D 1238 (Note A- Table 2)	1.2 g/cm ³
Film Properties		
Thickness of Film Tested	D 374	0.05 mm (2 mils)
Inherent Viscosity (film)	EMN-A-AC-G- V-1	0.65
Density	D 1505	1.31 g/cm ³
Haze	D 1003	<0.5%
Gloss @ 45°	D 2457	95

Regular Transmittance	D 1003 Modified	90%
Elmendorf Tear Resistance	D 1922	0.30 N (30 gf)
Tensile Stress @ Break	D 882	45 MPa (6580 psi)
Elongation @ Break	D 882	<5%
Tensile Modulus	D 882	2200 MPa (3.2 x 10 ⁵ psi)
Gas Permeability, CO ₂ @ 30°C (86°F), 68% RH	MOCON	16.7 cm ³ ·mm/m ² ·24h·atm (42.5 cm ³ ·mil/100in. ² ·24h·atm)
Gas Permeability, O ₂ @ 30°C (86°F), 0% RH	D 3985	3.1 cm ³ ·mm/m ² ·24h·atm (7.9 cm ³ ·mil/100in. ² ·24h·atm)
Water Vapor Transmission Rate ^d	F 372	39 g/m ² ·24h (2.6 g/100in. ² ·24h)

^a Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^b Unless noted otherwise, the test method is ASTM.

^c Units are in SI or US customary units.

^d Test conducted at 38°C (100°F) and 90% relative humidity.

Comments

Properties reported here are preliminary data based on testing of one lot if this material and, therefore, may or may not be representative of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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