

Sunday, April 15, 2007

Moplen EP301H**Basell Polyolefins - Polypropylene Impact Copolymer**

Unit System:

ActionsLegend ([Open](#))**General Information****General**

Material Status	<ul style="list-style-type: none"> Commercial: Active 	
Availability	<ul style="list-style-type: none"> Africa Asia Australia 	<ul style="list-style-type: none"> Latin America Middle East Pacific Rim
Test Standards Available	<ul style="list-style-type: none"> ISO 	
Features	<ul style="list-style-type: none"> Copolymer, Impact Flow, Low Food Contact Acceptable 	<ul style="list-style-type: none"> Impact Resistance, Low Temp. Melt Strength, Good
Uses	<ul style="list-style-type: none"> Profiles Sheet Sheet, Corrugated 	
Agency Ratings	<ul style="list-style-type: none"> FDA 21 CFR 176.170(c), Table 2, Cond. C¹ FDA 21 CFR 176.170(c), Table 2, Cond. D² FDA 21 CFR 176.170(c), Table 2, Cond. E³ FDA 21 CFR 176.170(c), Table 2, Cond. F⁴ 	<ul style="list-style-type: none"> FDA 21 CFR 176.170(c), Table 2, Cond. G⁵ FDA 21 CFR 176.170(c), Table 2, Cond. H⁶ FDA 21 CFR 177.1520(a) 3 (i)⁷ FDA 21 CFR 177.1520(c) 3.1a⁸
Forms	<ul style="list-style-type: none"> Pellets 	
Processing Method	<ul style="list-style-type: none"> Extrusion 	

ASTM and ISO Properties⁹

Physical	Nominal Value Unit	Test Method
Density (Method D)	0.900 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.7 g/10 min	ISO 1133
Mechanical	Nominal Value Unit	Test Method
Tensile Stress at Yield	3630 psi	ISO 527-1, -2
Flexural Modulus	167000 psi	ISO 178
Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ¹⁰		ISO 180
(-4 °F)	1.90 ft·lb/in ²	
(32 °F)	3.09 ft·lb/in ²	
(73 °F)	5.23 ft·lb/in ²	
Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D)	68	ISO 868

Thermal	Nominal Value Unit	Test Method
HDT A (1.80 MPa) Unannealed	122 °F	ISO 75A-1, -2
Vicat Softening Temperature (A (10N))	302 °F	ISO 306

Additional Properties

Shore Hardness, ISO 868, 1 sec: 68 D
Falling Weight Impact Strength, BS2782-306b: 11 J

Notes

- 1 When used unmodified for the manufacture of food contact articles, Moplen EP301H will comply with Food Additive Regulations FDA 21 CFR 176.170(c), Table 2, Cond. C under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.
- 2 When used unmodified for the manufacture of food contact articles, Moplen EP301H will comply with Food Additive Regulations FDA 21 CFR 176.170(c), Table 2, Cond. D under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.
- 3 When used unmodified for the manufacture of food contact articles, Moplen EP301H will comply with Food Additive Regulations FDA 21 CFR 176.170(c), Table 2, Cond. E under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.
- 4 When used unmodified for the manufacture of food contact articles, Moplen EP301H will comply with Food Additive Regulations FDA 21 CFR 176.170(c), Table 2, Cond. F under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.
- 5 When used unmodified for the manufacture of food contact articles, Moplen EP301H will comply with Food Additive Regulations FDA 21 CFR 176.170(c), Table 2, Cond. G under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.
- 6 When used unmodified for the manufacture of food contact articles, Moplen EP301H will comply with Food Additive Regulations FDA 21 CFR 176.170(c), Table 2, Cond. H under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.
- 7 When used unmodified for the manufacture of food contact articles, Moplen EP301H will comply with Food Additive Regulations FDA 21 CFR 177.1520(a) 3 (i) under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.
- 8 When used unmodified for the manufacture of food contact articles, Moplen EP301H will comply with Food Additive Regulations FDA 21 CFR 177.1520(c) 3.1a under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.
- 9 Typical properties: these are not to be construed as specifications.
- 10 Type 1, Notch A



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