

# Aspira™ One polymer

Polyethylene Terephthalate  
Eastman Chemical Company

Message:

Eastman Aspira™ One polymer is a resin specifically tailored for producing extrusion blow molded (EBM) containers that are compatible in the PET recycle stream (Resin ID code 1). Aspira One integrates four key material requirements, 1) recyclability, 2) processing efficiency, 3) design flexibility, and 4) bottle performance into a single product. Additional features such as high clarity and gloss improve product shelf appeal. Aspira One runs on most standard processing equipment. Minimal IV degradation during processing enables efficient use of regrind.

Eastman Aspira™ One is cleared for various food contact applications (including contact with most alcoholic beverages) by FCN No. 1234 as described in the Food and Drug Administration (FDA) Inventory of Effective Food Contact Substance Notifications and may be used in full compliance with the United States Federal Food and Drug, and Cosmetic Act, provided that it is used within the limitations set forth for FCN 1234.

General Information			
Features	Antimony Free		
	Barrier Resin		
	BPA Free		
	Excellent Printability		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Colorability		
	Good Toughness		
	Halogen Free		
	High Clarity		
	High Gloss		
	Recyclable Material		
Uses	Blow Molding Applications		
	Bottles		
	Containers		
	Food Containers		
	Packaging		
Agency Ratings	FDA FCN 1237		
Appearance	Clear/Transparent		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638

Yield, 23°C	55.0	MPa	
Break, 23°C	27.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	57	%	
Flexural Modulus (23°C)	2230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	43	J/m	
23°C	58	J/m	
Unnotched Izod Impact			ASTM D4812
-40°C	2800	J/m	
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	4.00	J	
23°C, Energy at Peak Load	33.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	68.0	°C	
1.8 MPa, Unannealed	62.0	°C	

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#### Recommended distributors for this material

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