

POLISAN HELLAS PRODUCT SPECIFICATION - PoliPET™ 76W

PoliPET™ 76W is a low molecular weight PET resin suitable for the production of bottles and other containers, of medium mechanical strength requirements and minimum potential for taint of acetaldehyde. It is suitable for the manufacturing of food packaging articles under local regulation, EU directives and FDA requirements. It can be used by conventional single and two stage processing machines, having low crystallization rate and good heat up properties. It presents excellent consistency and stability in injection molding, allowing for special settings for achieving minimum degradation and extra-low acetaldehyde generation, at maximum productivity. The special settings refer to low plasticization temperatures (270-275°C), low injection pressure and temperatures (<280°C), low back pressure (about 20 bars) and fast cycle time. While this resin has been specifically designed for the production of mineral water, beverage, food and other liquid containers, it is also perfectly suitable for thermoforming applications.

Specifications

Property	Test Method	Unit	Value
Intrinsic Viscosity	ISO 1628 (dichloroacetic acid as solvent)	dl/g	0.76±0.02
Color L*	ASTM 6290		≥ 85
Color b*	ASTM 6290		≤ 1
Acetaldehyde	ASTM F2013	ppm	≤ 1

Typical Properties

Property	Unit	Value
Specific Density Crystalline	g/cm ³	> 1.39
Crystallinity	%	> 48
Moisture	%wt	≤ 0.2
Bulk Density	Kg/m ³	840
Weight of 20 chips	mg	320
Melting Point	°C	240-250
Typical Molding Temperature	°C	270-290
Drying Conditions - Temperature	°C	165-175
Drying Conditions - Time	h	5-6

All properties are measured under laboratory conditions by the analytical method shown. Different methods or conditions of analysis may give different values. Purchased material will be accompanied by a Certificate or Analysis, with representative average values of specified properties.

Food Contact Statement

PoliPET™ 76W complies with the composition of requirements of the Regulation (EC) No 10/2011 and the EU Directive on Packaging and Packaging Waste (94/62/EC) and its amendments.

Packaging

Bigbag: 1100 kg. net
Bulk

Storage Conditions

Avoid direct sun light
Keep in cool and dry place