Lighter™ C98

Polyethylene Terephthalate

Equipolymers

Message:

Lighter Resins are polyethylene terephthalate produced from PTA and MEG. These are specifically designed for the production of beverage, food and other liquid containers for thermoforming.
There are several LIGHTER PET polymers, designed for the specific performance requirements of different applications, including very good mechanical properties, excellent clarity, and a wide processing range on all injection and stretch blow molding machines. LIGHTER C98 is particularly suitable for bottling mineral water since it is designed specifically to minimize the formation of acetaldehyde. In general this grade is recommended for bottles for both still and carbonated mineral water. LIGHTER C98 is also suitable for the production of extruded thermoformable sheets.

General Information	
Features	Good Processability High Clarity
Uses	Beverage Containers Bottles Food Containers
Forms	Pellets
Processing Method	Blow Molding Stretch Blow Molding Thermoforming

Physical	Nominal Value	Unit	Test Method
Apparent Density	0.88	g/cm³	Internal Method
Viscosity Number (Reduced Viscosity)	98.0	ml/g	Internal Method
Moisture Content	< 4000	ppm	Internal Method
Acetaldehyde	< 1.0	ppm	Internal Method
Crystallinity	> 50	%	Internal Method
Intrinsic Viscosity	0.82 to 0.86	dl/g	Internal Method
Weight - 100 Granules	1.5	g	Internal Method
Color Coordinate - b	< 2.00		Internal Method
Fine Particles	< 500	ppm	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	55.0	MPa	
Break	24.0	MPa	
Tensile Strain			ISO 527-2
Yield	4.0	%	
Break	250	%	

Flexural Modulus	2100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	4.5	kJ/m^2	ISO 180
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	78.0	°C	Internal Method
Vicat Softening Temperature	77.0	°C	ISO 306/B50
Melting Temperature (DSC)	247	°C	Internal Method
CLTE - Flow	8.3E-5	cm/cm/°C	ISO 11359-2

Recommended distributors for this material

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