

Lighter™ S93

Polyethylene Terephthalate

Equipolymers

Message:

LIGHTER™ S93 is a polyester polymer modified to improve infrared reheating of preforms.

LIGHTER S93 provides very good mechanical properties and a wide processing range on all injection molding machines. Moreover, preforms manufactured from LIGHTER S93 provide enhanced infrared heating rates, thus improving the operation of the stretch blow molding process, either increasing the maximum output or reducing the reheat energy. LIGHTER S93 is suitable for the production of bottles for both mineral water and carbonated soft drinks.

General Information	
Uses	Beverage Containers
	Bottles
	Food Containers
Forms	Pellets
Processing Method	Injection Molding
	Stretch Blow Molding

Physical	Nominal Value	Unit	Test Method
Apparent Density	0.88	g/cm ³	Internal Method
Moisture Content	< 0	ppm	Internal Method
Acetaldehyde	< 1.0	ppm	Internal Method
Crystallinity	> 50	%	Internal Method
Intrinsic Viscosity	0.78 to 0.82	dl/g	Internal Method
Weight - 100 Granules	1.5	g	Internal Method
Color Coordinate - b	< 1.50		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
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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

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