



GENERAL PURPOSE POLYSTYRENE GRADE 591

PROPERTY	Value	Test method
1. Melt flow, g/10 min., at 200 °C for 5 kg load,	1,5-2,1	ASTM D-1238
2. Vicat softening point,	98	ASTM D-1525
3. Breaking strength, MPa, min.	38	ASTM D-638
4. Flexural strength, MPa, min.	95	ASTM D-790
5. Residual styrene mass content, %, max.	0,05	para 4.10 of the present TU 2214-126-057668001-2003

Biaxially Printed Polystyrene (BOPS) is used for Base sheets and films for thermoforming:

Colored films

Laminated films

High transparency films (lids, labels and in-mold labels)

Twist wrap

Characteristics and applications of BOPS films

BOPS film is characterized by high transparency and gloss, and by its resistance to acid and alkaline solutions, salts, soaps, and detergents. It is odorless, neutral in flavor, and easy to cut and print.

BOPS film is mainly used as thick film for thermoforming applications or thin film for flexible packaging applications.

Thermoforming

The largest application for BOPS is thermoforming. Due to its high transparency and gloss, as well as its good stiffness and formability, BOPS sheets are converted into food trays and containers for fresh produce, pastries, and desserts. BOPS is also used for blister packaging of medical products, cosmetics, and electronic gadgets.

Labels and sleeves

BOPS film is printed and converted into labels and sleeves for bottles and containers, as well as for in-mold labeling.

Laminated film

BOPS, laminated with aluminum, is used for production of lids (e.g. dairy products).

High transparency film

Due to its transparency and stiffness, thin BOPS film is used for envelope windows.

Supply form:

Pellets

Packaging:

Paper, polyethylene or polypropylene bags.

Transportation:

By all modes of transport in covered vehicles. Product packed in soft containers can be transported in open rolling-stock.

Storage:

In enclosed space preventing from direct sun rays, on shelves or pallets at least 5 cm from the floor, and at least 1 m from heaters.