SNOWA H-731ES is a high impact polystyrene grade with an improved stress cracking resistance compared to conventional high impact polystyrene. It gives excellent processing properties in thermoforming with good dimensional stability.

Features

- High ESCR
- Deep draw thermoforming
- Excellent Melt Strength

Application

- Refrigerator inner liner
- Refrigerator door liner
- Packaging applications

No.	Test Item	Test Method	Unit	Value
1	Melt Flow Index (200°C - 5kg)	ASTM D-1238	g/10min	4
2	Vicat Softening Temperature (50°C/hr. - 1kg)	ASTM D-1525	°C	93
3	Tensile strength @ Break	ASTM D-638	MPa	29
4	Tensile strength @ Yield	ASTM D-638	MPa	32
5	Elongation @ Break	ASTM D-638	%	50
6	Flexural Modulus	ASTM D-790	MPa	2150
7	Tensile Modulus	ASTM D-638	MPa	1600
8	Notched Izod impact strength	ASTM D-256	J/m	100
9	Flexural stress @ Yield	ASTM D-790	MPa	34
10	Rockwell Hardness	ASTM D-785	-	67
11	Water Absorption	ASTM D-570	%	0.1
12	Residual Monomer	GB-16867	PPM	MAX 500
13	Mold Shrinkage	ASTM D-955	%	0.4 - 0.7
14	Density	ASTM D-955	Kg/lit	1.04

Processing : SNOWA H-731ES can be processed by any method applicable to polystyrene-based plastics, it designed for extrusion thermoforming. Mass temperature during extrusion should be below 250°C.