

Styrolution PS ESCRimo

High Impact Polystyrene (HIPS)

TECHNICAL DATASHEET

DESCRIPTION

Styrolution PS ESCRimo is a high impact polystyrene grade with an improved stress cracking resistance compared to conventional high impact polystyrene.

FEATURES

- High ESCR
- Deep draw thermoforming

APPLICATIONS

- Refrigerator inner liner
- Refrigerator door liner

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	3.4
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	15
Tensile Stress at Yield, 23 °C	ISO 527	MPa	22
Tensile Strain at Yield, 23 °C	ISO 527	%	1.8
Tensile Modulus	ISO 527	MPa	1550
Elongation at Break (MD)	ISO 527	%	50
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	89
Electrical Properties			
Dielectric Constant (100 Hz)	IEC 62631-2-1	-	2.5
Volume Resistivity	IEC 62631-3-1	Ohm*m	>10 ¹⁶
Surface Resistivity	IEC 62631-3-1	Ohm	>10 ¹³
Other Properties			
Density	ISO 1183	kg/m ³	1040
Processing			
Melt Temperature Range	ISO 294	°C	180 - 260