INEOS STYROLUTION

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	cm³/10 min	3.4
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	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/m³	1040
Processing			
Melt Temperature Range	ISO 294	°C	180 - 260

Typical values for uncolored products

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SUPPLY FORM

Styrolution PS ESCRimo is supplied as cylindrical shaped granules. It has to be kept in its original containers in a cool, dry place. Avoid direct exposure to sunlight. Styrolution PS can be stored in silos.

PROCESSING

Although Styrolution PS ESCRimo can be processed by any method applicable to polystyrene-based plastics, it is most suitable for extrusion / thermoforming. Mass temperatures can be as high as 260°C.

PRODUCT SAFETY

During processing of Styrolution PS small quantities of styrene monomer may be released into the atmosphere. At styrene vapor concentrations below 20ppm no negative effects on health are expected. In our experience, the concentration of styrene does not exceed 1 ppm in well ventilated workplaces - that is were five to eight air changes per hour are made.

DISCLAIMER

The aforementioned data shall constitute the agreed contractual quality of the product sold by INEOS Styrolution at the time of passing of risk. INEOS Styrolution does not make any further warranty, representation or guarantee of any kind, express or implied, regarding the suitability of the product for any particular purpose or application and INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.

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