

Styrolution PS 153A

General Purpose Polystyrene (GPPS)

TECHNICAL
DATASHEET

DESCRIPTION

Styrolution PS 153A is an antistatic modified, general purpose polystyrene grade with a good flow characteristic.

FEATURES

- Antistatic
- Good flow characteristics

APPLICATIONS

- Antistatic coextruded sheet for vending cups

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	17
Mechanical Properties			
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m ²	8
Tensile Stress at Yield, 23 °C	ISO 527	MPa	35
Tensile Modulus	ISO 527	MPa	3200
Nominal Strain at Break, 23 °C	ISO 527	%	1.5
Flexural Strength, 23 °C	ISO 178	MPa	55
Flexural Modulus, 23 °C	ISO 178	MPa	3200
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	85
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°C	97
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	80
Optical Properties			
Refractive Index, Sodium D Line	ISO 489	-	1.56
Light Transmission at 550 nm	ASTM D 1003	%	91
Haze	ASTM D 1003	%	0.3
Other Properties			
Density	ISO 1183	kg/m ³	1040

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Property, Test Condition	Standard	Unit	Values
Processing			
Melt Temperature Range	ISO 294	°C	180 - 280

Typical values for uncolored products

SUPPLY FORM

Styrolution PS 153A is supplied as cylindrical or lens shaped pellets. It has to be kept in its original containers in a cool, dry place. Avoid direct exposure to sunlight.

PROCESSING

Styrolution PS 153A can be processed by all methods normally used for polystyrene. Due to its flow characteristics it is used preferably for the coextrusion of antistatic gloss layers.

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 where 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.